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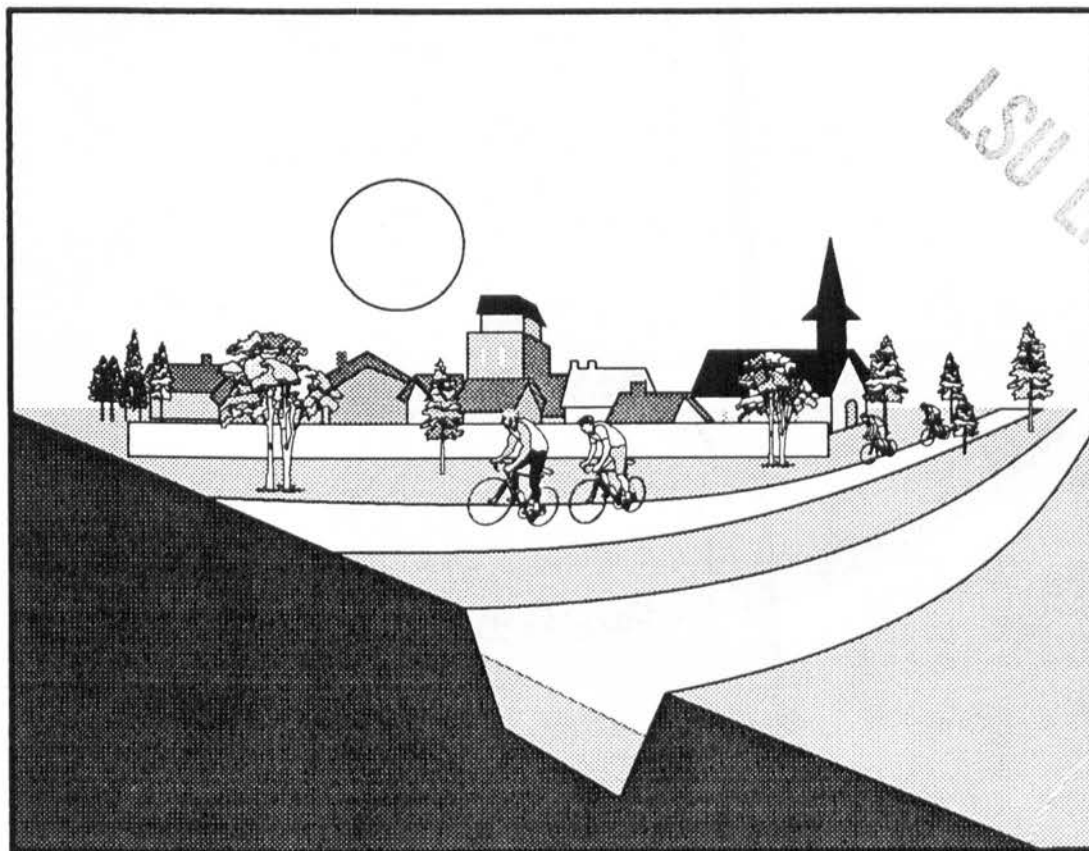
US Army Corps
of Engineers
New Orleans District



Amite River and Tributaries, Louisiana

East Baton Rouge Parish Watershed

Flood Control Projects



Feasibility Study

M-CACES Estimate
February 1995

**REVISED
DRAFT**

If you have any questions or require additional information,
please contact Mr. Frank Vicidomina, Study Manager, U.S. Army
Corps of Engineers, New Orleans District, P.O. Box 60267
New Orleans, LA 70160, telephone number (504) 862-1597.

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U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study

TIME 10:16:01

TITLE PAGE 1

East Baton Rouge Psh Feas. - NED

NED Plan

9/27/94

Designed By:

Estimated By: Cost Engineering Branch, NOD

Prepared By: Cost Engineering Branch

New Orleans District

Date: 09/27/94

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SUMMARY REPORTS	SUMMARY PAGE
PROJECT OWNER SUMMARY - LEVEL 2.....	1
PROJECT OWNER SUMMARY - LEVEL 6.....	3
PROJECT INDIRECT SUMMARY - LEVEL 2.....	22
PROJECT INDIRECT SUMMARY - LEVEL 6.....	24
PROJECT DIRECT SUMMARY - LEVEL 2.....	43
PROJECT DIRECT SUMMARY - LEVEL 6.....	45
DETAILED ESTIMATE	DETAIL PAGE
A. Bayou Fountain	
01. Lands and Damages	
00. Lands and Damages	
00. Lands and Damages.....	1
02. Relocations	
00. Relocations	
00. Relocations.....	2
06. Fish & Wildlife Facilities	
03. Wildlife Facilities & Sanctuary	
71. Fences	
02. Sitework	
01. Fencing - barbed wire.....	3
73. Habitat and Feeding Facilities	
02. Sitework	
01. Planting Trees.....	4
09. Channels and Canals	
01. Channels	
01. Mob & Demob	
01. Mob & Demob.....	5
15. Mechanical Dredging	
02. Sitework	
01. Clearing and Snagging.....	7
02. Clearing for Channel Dredging.....	8
03. Excavation.....	9
30. Bank Stabilization	
02. Sitework	
01. Filter Drain Fabric.....	11
02. sand (8" thick).....	12
03. riprap 16" - dry placement.....	14
03. Concrete	
01. 1 FT U-frame Base Slab.....	16
02. 1 FT U-frame wall.....	17
03. Channel Wall Pavement (4").....	18
04. Channel Wall Pavement (6").....	20
05. Channel Wall Pavement (8").....	22
99. Associated General Items	
05. Metals	
01. Fence (chain link).....	24

DETAILED ESTIMATE

DETAIL PAGE

06. Aesthetic Plantings	
01. Aesthetic Tree Planting.....	25
02. Aesthetic Shrub Planting.....	26
29. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements.....	27
30. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design.....	28
31. Construction Management	
00. Construction Management	
00. Construction Management.....	29
B. Jones Creek	
01. Lands and Damages	
00. Lands and Damages	
00. Lands and Damages.....	30
06. Fish & Wildlife Facilities	
03. Wildlife Facilities & Sanctuary	
71. Fences	
02. Sitework	
01. Fencing - barbed wire.....	31
73. Habitat and Feeding Facilities	
02. Sitework	
01. Planting Trees.....	32
09. Channels and Canals	
01. Channels	
01. Mob & Demob	
01. Mob & Demob.....	33
15. Mechanical Dredging	
02. Site Work	
01. Clearing for Channel Dredging.....	35
02. Degrading, hauling, shaping 16mi.....	36
03. Clearing and Snagging.....	40
30. Bank Stabilization	
02. Site Work	
01. sand (8" thick).....	41
02. Filter Drain Fabric.....	43
03. Fuseplug Dams.....	44
03. Concrete	
01. Cutoff Wall.....	45
02. Channel Wall Pavement (4").....	46
03. Channel Wall Pavement (6").....	47
04. Channel Wall Pavement (8").....	48
05. drain ditch.....	49
99. Associated General Items	
05. Metals	

DETAILED ESTIMATE	DETAIL PAGE
01. Fence (chain link).....	50
06. Aesthetic Planting	
01. Aesthetic Tree Planting.....	51
02. Aesthetic Shrub Planting.....	52
14. Recreation Facilities	
00.	
22. Parking Lots and Service Roads:	
02. Site Work	
02. Bridge - 10' x 50'.....	53
03. Bridge - 10' x 150'.....	54
04. Signs & Markers.....	55
05. Trees.....	56
06. Fence (6' Wooden).....	57
29. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements.....	58
30. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design.....	59
31. Construction Management	
00. Construction Management	
00. Construction Management	
00. Construction Management.....	60
C. Beaver Bayou	
01. Lands and Damages	
00. Lands and Damages	
00. Lands and Damages	
00. Lands and Damages.....	61
02. Relocations	
00. Relocations	
00. Relocations	
00. Relocations.....	62
06. Fish & Wildlife Facilities	
03. Wildlife Facilities & Sanctuary	
71. Fences	
02. Sitework	
01. Fencing - barbed wire.....	63
73. Habitat and Feeding Facilities	
02. Sitework	
01. Planting Trees.....	64
09. Channels and Canals	
01. Channels	
01. Mob & Demob	
01. Mob & Demob	
01. Mob & Demob.....	65
15. Mechanical Dredging	
02. Sitework	
01. Clearing for Channel Dredging.....	67
02. Excavation.....	68

DETAILED ESTIMATE	DETAIL PAGE
30. Bank Stabilization	
02. Site Work	
01. Geotextile Mat Turf Reinforcement.....	70
02. R-90 Stone.....	71
03. Hydromulch.....	72
04. Excavation for stone.....	73
05. Fuseplug Dams.....	75
03. Concrete.....	76
99. Associated General Items	
06. Aesthetic Plantings	
01. Aesthetic Tree Planting.....	76
29. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements.....	77
30. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design.....	78
31. Construction Management	
00. Construction Management	
00. Construction Management	
00. Construction Management.....	79
D. Blackwater Bayou	
01. Lands & Damages	
00. Lands & Damages	
00. Lands & Damages	
00. Lands & Damages.....	80
02. Relocations	
00. Relocations	
00. Relocations	
00. Relocations.....	81
06. Fish & Wildlife Facilities	
03. Wildlife Facilities & Sanctuary	
71. Fences	
02. Sitework	
01. Fencing - barbed wire.....	82
73. Habitat and Feeding Facilities	
02. Sitework	
01. Planting Trees.....	83
09. Channels and Canals	
01. Channels	
01. Mob & Demob	
01. Mob & Demob	
01. Mob & Demob.....	84
15. Mechanical Dredging	
02. Site Work	
01. Clearing for Channel Dredging.....	86
02. Excavation.....	87
30. Bank Stabilization	
02. Site Work	

DETAILED ESTIMATE	DETAIL PAGE
01. Geotextile Mat Turf Reinforcement.....	89
02. R-90 Stone.....	90
03. Hydromulch.....	91
04. Excavation for stone.....	92
05. Fuseplug Dams.....	94
99. Associated General Items	
06. Aesthetic Plantings	
01. Aesthetic Tree Planting.....	95
29. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements.....	96
30. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design.....	97
31. Construction Management	
00. Construction Management	
00. Construction Management	
00. Construction Management.....	98
E. Ward Creek	
01. Lands and Damages	
00. Lands and Damages	
00. Lands and Damages	
00. Lands and Damages.....	99
06. Fish & Wildlife Facilities	
03. Wildlife Facilities & Sanctuary	
71. Fences	
02. Sitework	
01. Fencing - barbed wire.....	100
73. Habitat and Feeding Facilities	
02. Sitework	
01. Planting Trees.....	101
09. Channels and Canals	
01. Channels	
01. Mob & Demob	
01. Mob & Demob	
01. Mob & Demob.....	102
15. Mechanical Dredging	
02. Sitework	
01. Clearing for Channel Dredging.....	104
02. Excavation.....	105
03. Clearing and Snagging.....	107
30. Bank Stabilization	
02. Sitework	
01. sand (8" thick).....	108
02. Filter Drain Fabric.....	110
03. Fuseplug Dams.....	111
03. Concrete	
01. Cutoff wall.....	112
02. Channel Wall Pavement (4").....	113

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study

TIME 10:16:01

TABLE OF CONTENTS

CONTENTS PAGE

DETAILED ESTIMATE

DETAIL PAGE

03. Channel Wall Pavement (6").....	114
04. Channel Wall Pavement (8").....	115
05. drain ditch.....	116
99. Associated General Items	
02. Sitework (Construction Access)	
01. excavation.....	117
02. Filter Fabric.....	119
03. Crushed stone.....	120
04. Obstruction Removal.....	122
05. Metals	
01. Fence (chain link).....	124
06. Aesthetic Plantings	
01. Aesthetic Tree Planting.....	125
02. Aesthetic Shrub Planting.....	126
29. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements	
00. Project Cooperation Agreements.....	127
30. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design	
00. Engineering and Design.....	128
31. Construction Management	
00. Construction Management	
00. Construction Management	
00. Construction Management.....	129

BACKUP REPORTS

BACKUP PAGE

LABOR BACKUP.....	1
LABOR BACKUP - LEVEL 6.....	2
EQUIPMENT BACKUP.....	10
EQUIPMENT BACKUP - LEVEL 6.....	11

* * * END TABLE OF CONTENTS * * *

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 2 **

TIME 10:16:01

SUMMARY PAGE 1

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
A Bayou Fountain							
A 01	Lands and Damages	1,019,000	256,000	0	0	1,275,000	
A 02	Relocations	3,000	1,000	0	0	4,000	
A 06	Fish & Wildlife Facilities	11,110	2,890	0	0	14,000	
A 09	Channels and Canals	1,805,665	353,335	0	0	2,159,000	
A 29	Project Cooperation Agreements	4,100	900	0	0	5,000	
A 30	Engineering and Design	851,000	87,000	0	0	938,000	
A 31	Construction Management	304,000	61,000	0	0	365,000	
Bayou Fountain		3,997,875	762,125	0	0	4,760,000	
B Jones Creek							
B 01	Lands and Damages	393,020	99,980	0	0	493,000	
B 06	Fish & Wildlife Facilities	51,704	13,296	0	0	65,000	
B 09	Channels and Canals	35,453,100	9,268,900	0	0	44,722,000	
B 14	Recreation Facilities	908,797	227,203	0	0	1,136,000	
B 29	Project Cooperation Agreements	1,700	300	0	0	2,000	
B 30	Engineering and Design	2,504,000	488,000	0	0	2,992,000	
B 31	Construction Management	2,649,000	531,000	0	0	3,180,000	
Jones Creek		41,961,321	10,628,679	0	0	52,590,000	
C Beaver Bayou							
C 01	Lands and Damages	1,512,590	378,410	0	0	1,891,000	
C 02	Relocations	1,682,240	422,760	0	0	2,105,000	
C 06	Fish & Wildlife Facilities	57,259	14,741	0	0	72,000	
C 09	Channels and Canals	11,963,320	2,365,680	0	0	14,329,000	
C 29	Project Cooperation Agreements	4,100	900	0	0	5,000	
C 30	Engineering and Design	1,250,000	238,000	0	0	1,488,000	
C 31	Construction Management	583,000	117,000	0	0	700,000	
Beaver Bayou		17,052,509	3,537,491	0	0	20,590,000	
D Blackwater Bayou							
D 01	Lands & Damages	1,476,000	370,000	0	0	1,846,000	
D 02	Relocations	1,675,680	419,320	0	0	2,095,000	
D 06	Fish & Wildlife Facilities	49,856	12,144	0	0	62,000	
D 09	Channels and Canals	12,812,975	2,552,025	0	0	15,365,000	
D 29	Project Cooperation Agreements	4,100	900	0	0	5,000	
D 30	Engineering and Design	1,226,000	241,000	0	0	1,467,000	
D 31	Construction Management	708,000	142,000	0	0	850,000	
Blackwater Bayou		17,952,611	3,737,389	0	0	21,690,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 2 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E Ward Creek							
E 01 Lands and Damages		122,540	32,460	0	0	155,000	
E 06 Fish & Wildlife Facilities		14,817	4,183	0	0	19,000	
E 09 Channels and Canals		5,759,875	1,421,125	0	0	7,181,000	
E 29 Project Cooperation Agreements		2,400	600	0	0	3,000	
E 30 Engineering and Design		1,303,000	248,000	0	0	1,551,000	
E 31 Construction Management		467,000	94,000	0	0	561,000	
<hr/>							
Ward Creek		7,669,632	1,800,368	0	0	9,470,000	
<hr/>							
East Baton Rouge Psh Feas. - NED	1.00 EA	88,633,948	20,466,052	0	0	109,100,000	109100000

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 3

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
A Bayou Fountain							
A 01 Lands and Damages							
A 0100 Lands and Damages							
A 010000 Lands and Damages							
A 01000000 Lands and Damages							
Lands and Damages		1,019,000	256,000	0	0	1,275,000	
Lands and Damages		1,019,000	256,000	0	0	1,275,000	
Lands and Damages		1,019,000	256,000	0	0	1,275,000	
Lands and Damages		1,019,000	256,000	0	0	1,275,000	
A 02 Relocations							
A 0200 Relocations							
A 020000 Relocations							
A 02000000 Relocations							
Relocations		3,000	1,000	0	0	4,000	
Relocations		3,000	1,000	0	0	4,000	
Relocations		3,000	1,000	0	0	4,000	
Relocations		3,000	1,000	0	0	4,000	
A 06 Fish & Wildlife Facilities							
A 0603 Wildlife Facilities & Sanctuary							
A 060371 Fences							
A 06037102 Sitework							
A 06037102 01 Fencing - barbed wire	1378.00 LF	7,510	1,954	0	0	9,464	6.87
Sitework		7,510	1,954	0	0	9,464	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Fences		7,510	1,954	0	0	9,464	
A 060373 Habitat and Feeding Facilities							
A 06037302 Sitework							
A 06037302 01 Planting Trees	24.00 AC	3,600	936	0	0	4,536	189.00
Sitework		3,600	936	0	0	4,536	
Habitat and Feeding Facil		3,600	936	0	0	4,536	
Wildlife Facilities & San		11,110	2,890	0	0	14,000	
Fish & Wildlife Facilitie		11,110	2,890	0	0	14,000	
A 09 Channels and Canals							
A 0901 Channels							
A 090101 Mob & Demob							
A 09010101 Mob & Demob							
A 09010101 01 Mob & Demob		100,000	19,570	0	0	119,570	
Mob & Demob		100,000	19,570	0	0	119,570	
Mob & Demob		100,000	19,570	0	0	119,570	
A 090115 Mechanical Dredging							
A 09011502 Sitework							
A 09011502 01 Clearing and Snagging	8.00 MI	152,000	29,747	0	0	181,747	22718.38
A 09011502 02 Clearing for Channel Dred	47.00 AC	277,300	54,268	0	0	331,568	7054.64
A 09011502 03 Excavation	283000.00 CY	1,103,700	215,941	0	0	1,319,641	4.66
Sitework		1,533,000	299,956	0	0	1,832,956	
Mechanical Dredging		1,533,000	299,956	0	0	1,832,956	
A 090130 Bank Stabilization							
A 09013002 Sitework							

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

SUMMARY PAGE 5

** PROJECT OWNER SUMMARY - LEVEL 6 **

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
A 09013002 01 Filter Drain Fabric	6460.00 SY	48,450	9,482	0	0	57,932	8.97
A 09013002 02 sand (8" thick)	160.00 CY	1,200	235	0	0	1,435	8.97
A 09013002 03 riprap 16" - dry placemen	890.00 TON	20,470	4,006	0	0	24,476	27.50
Sitework		70,120	13,723	0	0	83,843	
A 09013003 Concrete							
A 09013003 01 1 FT U-frame Base Slab	67.00 CY	12,060	2,360	0	0	14,420	215.22
A 09013003 02 1 FT U-frame wall	100.00 CY	30,000	5,871	0	0	35,871	358.71
A 09013003 03 Channel Wall Pavement (4"	55.00 CY	7,150	1,399	0	0	8,549	155.44
A 09013003 04 Channel Wall Pavement (6"	43.00 CY	6,450	1,262	0	0	7,712	179.35
A 09013003 05 Channel Wall Pavement (8"	62.00 CY	9,300	1,820	0	0	11,120	179.35
Concrete		64,960	12,712	0	0	77,672	
Bank Stabilization		135,080	26,435	0	0	161,515	
() 090199 Associated General Items							
A 09019905 Metals							
A 09019905 01 Fence (chain link)	300.00 LF	2,475	484	0	0	2,959	9.86
Metals		2,475	484	0	0	2,959	
A 09019906 Aesthetic Plantings							
A 09019906 01 Aesthetic Tree Planting	1050.00 EA	15,750	3,250	0	0	19,000	18.10
A 09019906 02 Aesthetic Shrub Planting	1760.00 EA	19,360	3,640	0	0	23,000	13.07
Aesthetic Plantings		35,110	6,890	0	0	42,000	
Associated General Items		37,585	7,374	0	0	44,959	
Channels		1,805,665	353,335	0	0	2,159,000	
Channels and Canals		1,805,665	353,335	0	0	2,159,000	
A 29 Project Cooperation Agreements							
A 2900 Project Cooperation Agreements							
() 290000 Project Cooperation Agreements							
A 29000000 Project Cooperation Agreements							

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Project Cooperation Agree	4,100		900	0	0	5,000		
Project Cooperation Agree	4,100		900	0	0	5,000		
Project Cooperation Agree	4,100		900	0	0	5,000		
Project Cooperation Agree	4,100		900	0	0	5,000		
A 30 Engineering and Design								
A 3000 Engineering and Design								
A 300000 Engineering and Design								
A 30000000 Engineering and Design								
Engineering and Design	851,000		87,000	0	0	938,000		
Engineering and Design	851,000		87,000	0	0	938,000		
Engineering and Design	851,000		87,000	0	0	938,000		
Engineering and Design	851,000		87,000	0	0	938,000		
A 31 Construction Management								
A 3100 Construction Management								
A 310000 Construction Management								
A 31000000 Construction Management								
Construction Management	304,000		61,000	0	0	365,000		
Construction Management	304,000		61,000	0	0	365,000		
Construction Management	304,000		61,000	0	0	365,000		
Construction Management	304,000		61,000	0	0	365,000		
Bayou Fountain	3,997,875		762,125	0	0	4,760,000		
B Jones Creek								
B 01 Lands and Damages								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 7

		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
B 0100 Lands and Damages								
B 010000 Lands and Damages								
B 01000000 Lands and Damages								
	Lands and Damages		393,020	99,980	0	0	493,000	
	Lands and Damages		393,020	99,980	0	0	493,000	
	Lands and Damages		393,020	99,980	0	0	493,000	
	Lands and Damages		393,020	99,980	0	0	493,000	
B 06 Fish & Wildlife Facilities								
B 0603 Wildlife Facilities & Sanctuary								
B 060371 Fences								
B 06037102 Sitework								
B 06037102 01	Fencing - barbed wire	6432.00 LF	35,054	9,016	0	0	44,070	6.85
	Sitework		35,054	9,016	0	0	44,070	
	Fences		35,054	9,016	0	0	44,070	
B 060373 Habitat and Feeding Facilities								
B 06037302 Sitework								
B 06037302 01	Planting Trees	111.00 AC	16,650	4,280	0	0	20,930	188.56
	Sitework		16,650	4,280	0	0	20,930	
	Habitat and Feeding Facil		16,650	4,280	0	0	20,930	
	Wildlife Facilities & San		51,704	13,296	0	0	65,000	
	Fish & Wildlife Facilitie		51,704	13,296	0	0	65,000	
09 Channels and Canals								
B 0901 Channels								
B 090101 Mob & Demob								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
B 09010101 Mob & Demob								
B 09010101 01	Mob & Demob		470,000	117,500	0	0	587,500	
	Mob & Demob		470,000	117,500	0	0	587,500	
	Mob & Demob		470,000	117,500	0	0	587,500	
B 090115 Mechanical Dredging								
B 09011502 Site Work								
B 09011502 01	Clearing for Channel Dred	272.00 AC	843,200	210,800	0	0	1,054,000	3875.00
B 09011502 02	Degrading, hauling, shapi	162000.00 CY	1,620,000	810,000	0	0	2,430,000	15.00
B 09011502 03	Clearing and Snagging	3.00 MI	57,000	14,250	0	0	71,250	23750.00
	Site Work		2,520,200	1,035,050	0	0	3,555,250	
	Mechanical Dredging		2,520,200	1,035,050	0	0	3,555,250	
B 090130 Bank Stabilization								
B 09013002 Site Work								
B 09013002 01	sand (8" thick)	84000.00 CY	974,400	243,600	0	0	1,218,000	14.50
B 09013002 02	Filter Drain Fabric	418700.00 SY	3,140,250	785,062	0	0	3,925,312	9.37
B 09013002 03	Fuseplug Dams		108,000	27,000	0	0	135,000	
	Site Work		4,222,650	1,055,662	0	0	5,278,312	
B 09013003 Concrete								
B 09013003 01	Cutoff Wall	6150.00 CY	922,500	230,625	0	0	1,153,125	187.50
B 09013003 02	Channel Wall Pavement (4"	82300.00 CY	10,699,000	2,670,000	0	0	13,369,000	162.44
B 09013003 03	Channel Wall Pavement (6"	61300.00 CY	9,195,000	2,300,000	0	0	11,495,000	187.52
B 09013003 04	Channel Wall Pavement (8"	11000.00 CY	1,650,000	412,500	0	0	2,062,500	187.50
B 09013003 05	drain ditch	33100.00 CY	4,303,000	1,080,000	0	0	5,383,000	162.63
	Concrete		26,769,500	6,693,125	0	0	33,462,625	
	Bank Stabilization		30,992,150	7,748,787	0	0	38,740,937	
B 090199 Associated General Items								
B 09019905 Metals								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 9

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
<hr/>								
B 09019905 01 Fence (chain link)	171000.00	LF	1,410,750	352,563	0	0	1,763,313	10.31
Metals			1,410,750	352,563	0	0	1,763,313	
<hr/>								
B 09019906 Aesthetic Planting								
B 09019906 01 Aesthetic Tree Planting	1800.00	EA	27,000	6,500	0	0	33,500	18.61
B 09019906 02 Aesthetic Shrub Planting	3000.00	EA	33,000	8,500	0	0	41,500	13.83
Aesthetic Planting			60,000	15,000	0	0	75,000	
Associated General Items			1,470,750	367,563	0	0	1,838,313	
Channels			35,453,100	9,268,900	0	0	44,722,000	
Channels and Canals			35,453,100	9,268,900	0	0	44,722,000	
<hr/>								
14 Recreation Facilities								
B 1400								
B 140022 Parking Lots and Service Roads								
<hr/>								
B 14002202 Site Work								
B 14002202 02 Bridge - 10' x 50'			23,500	5,500	0	0	29,000	
B 14002202 03 Bridge - 10' x 150'			106,000	26,500	0	0	132,500	
B 14002202 04 Signs & Markers	20.00	EA	3,200	800	0	0	4,000	200.00
B 14002202 05 Trees	4431.00	EA	66,465	16,600	0	0	83,065	18.75
B 14002202 06 Fence (6' Wooden)	55440.00	LF	709,632	177,803	0	0	887,435	16.01
Site Work			908,797	227,203	0	0	1,136,000	
Parking Lots and Service			908,797	227,203	0	0	1,136,000	
			908,797	227,203	0	0	1,136,000	
Recreation Facilities			908,797	227,203	0	0	1,136,000	
<hr/>								
B 29 Project Cooperation Agreements								
B 2900 Project Cooperation Agreements								
290000 Project Cooperation Agreements								
<hr/>								
B 29000000 Project Cooperation Agreements								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Project Cooperation Agree		1,700	300	0	0	2,000	
Project Cooperation Agree		1,700	300	0	0	2,000	
Project Cooperation Agree		1,700	300	0	0	2,000	
Project Cooperation Agree		1,700	300	0	0	2,000	
B 30 Engineering and Design							
B 3000 Engineering and Design							
B 300000 Engineering and Design							
B 30000000 Engineering and Design							
Engineering and Design		2,504,000	488,000	0	0	2,992,000	
Engineering and Design		2,504,000	488,000	0	0	2,992,000	
Engineering and Design		2,504,000	488,000	0	0	2,992,000	
Engineering and Design		2,504,000	488,000	0	0	2,992,000	
B 31 Construction Management							
B 3100 Construction Management							
B 310000 Construction Management							
B 31000000 Construction Management							
Construction Management		2,649,000	531,000	0	0	3,180,000	
Construction Management		2,649,000	531,000	0	0	3,180,000	
Construction Management		2,649,000	531,000	0	0	3,180,000	
Construction Management		2,649,000	531,000	0	0	3,180,000	
Jones Creek		41,961,321	10,628,679	0	0	52,590,000	
C Beaver Bayou							
C 01 Lands and Damages							

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 11

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
C 0100 Lands and Damages								
C 010000 Lands and Damages								
C 01000000 Lands and Damages								
Lands and Damages			1,512,590	378,410	0	0	1,891,000	
Lands and Damages			1,512,590	378,410	0	0	1,891,000	
Lands and Damages			1,512,590	378,410	0	0	1,891,000	
Lands and Damages			1,512,590	378,410	0	0	1,891,000	
C 02 Relocations								
C 0200 Relocations								
C 020000 Relocations								
C 02000000 Relocations								
Relocations			1,682,240	422,760	0	0	2,105,000	
Relocations			1,682,240	422,760	0	0	2,105,000	
Relocations			1,682,240	422,760	0	0	2,105,000	
Relocations			1,682,240	422,760	0	0	2,105,000	
C 06 Fish & Wildlife Facilities								
C 0603 Wildlife Facilities & Sanctuary								
C 060371 Fences								
C 06037102 Sitework								
C 06037102 01 Fencing - barbed wire	7121.00	LF	38,809	9,999	0	0	48,808	6.85
Sitework			38,809	9,999	0	0	48,808	
Fences			38,809	9,999	0	0	48,808	
C 060373 Habitat and Feeding Facilities								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
C 06037302 Sitework								
C 06037302 01 Planting Trees	123.00	AC	18,450	4,742	0	0	23,192	188.55
Sitework			18,450	4,742	0	0	23,192	
Habitat and Feeding Facil			18,450	4,742	0	0	23,192	
Wildlife Facilities & San			57,259	14,741	0	0	72,000	
Fish & Wildlife Facilitie			57,259	14,741	0	0	72,000	
C 09 Channels and Canals								
C 0901 Channels								
C 090101 Mob & Demob								
C 09010101 Mob & Demob								
C 09010101 01 Mob & Demob			220,000	43,444	0	0	263,444	
Mob & Demob			220,000	43,444	0	0	263,444	
Mob & Demob			220,000	43,444	0	0	263,444	
C 090115 Mechanical Dredging								
C 09011502 Sitework								
C 09011502 01 Clearing for Channel Dred	220.00	AC	1,298,000	256,321	0	0	1,554,321	7065.09
C 09011502 02 Excavation	695000.00	CY	3,892,000	768,567	0	0	4,660,567	6.71
Sitework			5,189,999	1,024,888	0	0	6,214,887	
Mechanical Dredging			5,189,999	1,024,888	0	0	6,214,887	
C 090130 Bank Stabilization								
C 09013002 Site Work								
C 09013002 01 Geotextile Mat Turf Reinf	545100.00	SY	3,270,600	645,927	0	0	3,916,527	7.18
C 09013002 02 R-90 Stone	130200.00	TN	2,408,700	475,655	0	0	2,884,355	22.15
C 09013002 03 Hydromulch	322400.00	SY	80,600	15,916	0	0	96,516	0.30
C 09013002 04 Excavation for stone	115700.00	CY	647,920	127,947	0	0	775,867	6.71
C 09013002 05 Fuseplug Dams			78,000	15,403	0	0	93,403	
Site Work			6,485,821	1,280,848	0	0	7,766,669	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 13

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
<hr/>								
C 09013003 Concrete								
Bank Stabilization			6,485,821	1,280,848	0	0	7,766,669	
C 090199 Associated General Items								
C 09019906 Aesthetic Plantings								
C 09019906 01 Aesthetic Tree Planting	4500.00	EA	67,500	16,500	0	0	84,000	18.67
Aesthetic Plantings			67,500	16,500	0	0	84,000	
Associated General Items			67,500	16,500	0	0	84,000	
Channels			11,963,320	2,365,680	0	0	14,329,000	
Channels and Canals			11,963,320	2,365,680	0	0	14,329,000	
C 29 Project Cooperation Agreements								
C 2900 Project Cooperation Agreements								
C 290000 Project Cooperation Agreements								
C 29000000 Project Cooperation Agreements								
Project Cooperation Agree			4,100	900	0	0	5,000	
Project Cooperation Agree			4,100	900	0	0	5,000	
Project Cooperation Agree			4,100	900	0	0	5,000	
Project Cooperation Agree			4,100	900	0	0	5,000	
C 30 Engineering and Design								
C 3000 Engineering and Design								
C 300000 Engineering and Design								
C 30000000 Engineering and Design								
Engineering and Design			1,250,000	238,000	0	0	1,488,000	
Engineering and Design			1,250,000	238,000	0	0	1,488,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST UNIT COST
Engineering and Design		1,250,000	238,000	0	0	1,488,000
Engineering and Design		1,250,000	238,000	0	0	1,488,000
C 31 Construction Management						
C 3100 Construction Management						
C 310000 Construction Management						
C 31000000 Construction Management						
Construction Management		583,000	117,000	0	0	700,000
Construction Management		583,000	117,000	0	0	700,000
Construction Management		583,000	117,000	0	0	700,000
Construction Management		583,000	117,000	0	0	700,000
Beaver Bayou		17,052,509	3,537,491	0	0	20,590,000
D Blackwater Bayou						
D 01 Lands & Damages						
D 0100 Lands & Damages						
D 010000 Lands & Damages						
D 01000000 Lands & Damages						
Lands & Damages		1,476,000	370,000	0	0	1,846,000
Lands & Damages		1,476,000	370,000	0	0	1,846,000
Lands & Damages		1,476,000	370,000	0	0	1,846,000
Lands & Damages		1,476,000	370,000	0	0	1,846,000
D 02 Relocations						
D 0200 Relocations						
D 020000 Relocations						

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 15

		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
D 02000000 Relocations								
	Relocations		1,675,680	419,320	0	0	2,095,000	
	Relocations		1,675,680	419,320	0	0	2,095,000	
	Relocations		1,675,680	419,320	0	0	2,095,000	
	Relocations		1,675,680	419,320	0	0	2,095,000	
D 06 Fish & Wildlife Facilities								
D 0603 Wildlife Facilities & Sanctuary								
D 060371 Fences								
D 06037102 Sitework								
- D 06037102 01	Fencing - barbed wire	6203.00 LF	33,806	8,544	0	0	42,350	6.83
	Sitework		33,806	8,544	0	0	42,350	
	Fences		33,806	8,544	0	0	42,350	
D 060373 Habitat and Feeding Facilities								
D 06037302 Sitework								
D 06037302 01	Planting Trees	107.00 AC	16,050	3,600	0	0	19,650	183.64
	Sitework		16,050	3,600	0	0	19,650	
	Habitat and Feeding Facil		16,050	3,600	0	0	19,650	
	Wildlife Facilities & San		49,856	12,144	0	0	62,000	
	Fish & Wildlife Facilitie		49,856	12,144	0	0	62,000	
D 09 Channels and Canals								
D 0901 Channels								
D 090101 Mob & Demob								
D 09010101 Mob & Demob								
D 09010101 01	Mob & Demob		150,000	29,777	0	0	179,777	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Mob & Demob			150,000	29,777	0	0	179,777	
Mob & Demob			150,000	29,777	0	0	179,777	
D 090115 Mechanical Dredging								
D 09011502 Site Work								
D 09011502 01	Clearing for Channel Dred	164.00 AC	967,600	192,146	0	0	1,159,746	7071.62
D 09011502 02	Excavation	517600.00 CY	2,639,760	524,201	0	0	3,163,961	6.11
Site Work			3,607,360	716,347	0	0	4,323,707	
Mechanical Dredging			3,607,360	716,347	0	0	4,323,707	
D 090130 Bank Stabilization								
D 09013002 Site Work								
D 09013002 01	Geotextile Mat Turf Reinf	887000.00 SY	5,322,000	1,060,000	0	0	6,382,000	7.20
D 09013002 02	R-90 Stone	137800.00 TN	2,687,100	533,577	0	0	3,220,677	23.37
D 09013002 03	Hydromulch	551500.00 SY	137,875	27,379	0	0	165,254	0.30
D 09013002 04	Excavation for stone	141400.00 CY	721,140	143,196	0	0	864,336	6.11
D 09013002 05	Fuseplug Dams		102,000	20,249	0	0	122,249	
Site Work			8,970,115	1,784,401	0	0	10,754,516	
Bank Stabilization			8,970,115	1,784,401	0	0	10,754,516	
D 090199 Associated General Items								
D 09019906 Aesthetic Plantings								
D 09019906 01	Aesthetic Tree Planting	5700.00 EA	85,500	21,500	0	0	107,000	18.77
Aesthetic Plantings			85,500	21,500	0	0	107,000	
Associated General Items			85,500	21,500	0	0	107,000	
Channels			12,812,975	2,552,025	0	0	15,365,000	
Channels and Canals			12,812,975	2,552,025	0	0	15,365,000	
D 29 Project Cooperation Agreements								
D 2900 Project Cooperation Agreements								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 17

QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
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D 290000 Project Cooperation Agreements

D 29000000 Project Cooperation Agreements

Project Cooperation Agree	4,100	900	0	0	5,000
Project Cooperation Agree	4,100	900	0	0	5,000
Project Cooperation Agree	4,100	900	0	0	5,000
Project Cooperation Agree	4,100	900	0	0	5,000

D 30 Engineering and Design

D 3000 Engineering and Design

D 300000 Engineering and Design

D 30000000 Engineering and Design

Engineering and Design	1,226,000	241,000	0	0	1,467,000
Engineering and Design	1,226,000	241,000	0	0	1,467,000
Engineering and Design	1,226,000	241,000	0	0	1,467,000
Engineering and Design	1,226,000	241,000	0	0	1,467,000

D 31 Construction Management

D 3100 Construction Management

D 310000 Construction Management

D 31000000 Construction Management

Construction Management	708,000	142,000	0	0	850,000
Construction Management	708,000	142,000	0	0	850,000
Construction Management	708,000	142,000	0	0	850,000
Construction Management	708,000	142,000	0	0	850,000
Blackwater Bayou	17,952,611	3,737,389	0	0	21,690,000

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E Ward Creek							
E 01 Lands and Damages							
E 0100 Lands and Damages							
E 010000 Lands and Damages							
E 01000000 Lands and Damages							
Lands and Damages		122,540	32,460	0	0	155,000	
Lands and Damages		122,540	32,460	0	0	155,000	
Lands and Damages		122,540	32,460	0	0	155,000	
Lands and Damages		122,540	32,460	0	0	155,000	
E 06 Fish & Wildlife Facilities							
E 0603 Wildlife Facilities & Sanctuary							
E 060371 Fences							
E 06037102 Sitework							
E 06037102 01 Fencing - barbed wire	1838.00 LF	10,017	2,828	0	0	12,845	6.99
Sitework		10,017	2,828	0	0	12,845	
Fences		10,017	2,828	0	0	12,845	
E 060373 Habitat and Feeding Facilities							
E 06037302 Sitework							
E 06037302 01 Planting Trees	32.00 AC	4,800	1,355	0	0	6,155	192.34
Sitework		4,800	1,355	0	0	6,155	
Habitat and Feeding Facil		4,800	1,355	0	0	6,155	
Wildlife Facilities & San		14,817	4,183	0	0	19,000	
Fish & Wildlife Facilitie		14,817	4,183	0	0	19,000	
E 09 Channels and Canals							

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 19

			QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E 0901 Channels									
E 090101 Mob & Demob									
E 09010101 Mob & Demob									
E 09010101 01	Mob & Demob			150,000	36,806	0	0	186,806	
	Mob & Demob			150,000	36,806	0	0	186,806	
	Mob & Demob			150,000	36,806	0	0	186,806	
E 090115 Mechanical Dredging									
E 09011502 Sitework									
09011502 01	Clearing for Channel Dred	20.00 AC		118,000	28,954	0	0	146,954	7347.70
09011502 02	Excavation	143000.00 CY		965,250	236,850	0	0	1,202,100	8.41
E 09011502 03	Clearing and Snagging	13.00 MI		247,000	60,608	0	0	307,608	23662.15
	Sitework			1,330,250	326,412	0	0	1,656,662	
	Mechanical Dredging			1,330,250	326,412	0	0	1,656,662	
E 090130 Bank Stabilization									
E 09013002 Sitework									
E 09013002 01	sand (8" thick)	13200.00 CY		138,600	34,009	0	0	172,609	13.08
E 09013002 02	Filter Drain Fabric	59300.00 SY		444,750	109,131	0	0	553,881	9.34
E 09013002 03	Fuseplug Dams			40,000	9,815	0	0	49,815	
	Sitework			623,350	152,955	0	0	776,305	
E 09013003 Concrete									
E 09013003 01	Cutoff wall	400.00 CY		60,000	14,723	0	0	74,723	186.81
E 09013003 02	Channel Wall Pavement (4"	8800.00 CY		1,144,000	284,810	0	0	1,428,810	162.36
E 09013003 03	Channel Wall Pavement (6"	6600.00 CY		990,000	246,510	0	0	1,236,510	187.35
E 09013003 04	Channel Wall Pavement (8"	4500.00 CY		675,000	165,629	0	0	840,629	186.81
E 09013003 05	drain ditch	2200.00 CY		286,000	70,178	0	0	356,178	161.90
	Concrete			3,155,000	781,850	0	0	3,936,850	
	Bank Stabilization			3,778,350	934,805	0	0	4,713,155	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E 090199 Associated General Items								
E 09019902 Sitework (Construction Acces								
E 09019902 01	excavation	6500.00	CY	47,125	11,563	0	58,688	9.03
E 09019902 02	Filter Fabric	19400.00	SY	67,900	16,661	0	84,561	4.36
E 09019902 03	Crushed stone	9000.00	TON	216,000	53,001	0	269,001	29.89
E 09019902 04	Obstruction Removal	5600.00	LF	56,000	13,741	0	69,741	12.45
	Sitework (Construction Ac			387,025	94,966	0	481,991	
E 09019905 Metals								
E 09019905 01	Fence (chain link)	11200.00	LF	92,400	22,673	0	115,073	10.27
	Metals			92,400	22,673	0	115,073	
E 09019906 Aesthetic Plantings								
E 09019906 01	Aesthetic Tree Planting	650.00	EA	9,750	2,438	0	12,188	18.75
E 09019906 02	Aesthetic Shrub Planting	1100.00	EA	12,100	3,025	0	15,125	13.75
	Aesthetic Plantings			21,850	5,463	0	27,313	
	Associated General Items			501,275	123,102	0	624,377	
	Channels			5,759,875	1,421,125	0	7,181,000	
	Channels and Canals			5,759,875	1,421,125	0	7,181,000	
E 29 Project Cooperation Agreements								
E 2900 Project Cooperation Agreements								
E 290000 Project Cooperation Agreements								
E 29000000 Project Cooperation Agree								
	Project Cooperation Agree			2,400	600	0	3,000	
	Project Cooperation Agree			2,400	600	0	3,000	
	Project Cooperation Agree			2,400	600	0	3,000	
	Project Cooperation Agree			2,400	600	0	3,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT OWNER SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 21

	QUANTITY	UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
<hr/>								
E 30 Engineering and Design								
E 3000 Engineering and Design								
E 300000 Engineering and Design								
E 30000000 Engineering and Design								
Engineering and Design			1,303,000	248,000	0	0	1,551,000	
Engineering and Design			1,303,000	248,000	0	0	1,551,000	
Engineering and Design			1,303,000	248,000	0	0	1,551,000	
Engineering and Design			1,303,000	248,000	0	0	1,551,000	
E 31 Construction Management								
E 3100 Construction Management								
E 310000 Construction Management								
E 31000000 Construction Management								
Construction Management			467,000	94,000	0	0	561,000	
Construction Management			467,000	94,000	0	0	561,000	
Construction Management			467,000	94,000	0	0	561,000	
Construction Management			467,000	94,000	0	0	561,000	
Ward Creek			7,669,632	1,800,368	0	0	9,470,000	
East Baton Rouge Psh Feas	1.00	EA	88,633,948	20,466,052	0	0	109,100,000	109100000

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 2 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
A Bayou Fountain									
A 01 Lands and Damages		1,019,000	0	0	0	0	0	1,019,000	
A 02 Relocations		3,000	0	0	0	0	0	3,000	
A 06 Fish & Wildlife Facili		8,888	2,222	0	0	0	0	11,110	
A 09 Channels and Canals		1,444,532	361,133	0	0	0	0	1,805,665	
A 29 Project Cooperation Ag		4,100	0	0	0	0	0	4,100	
A 30 Engineering and Design		851,000	0	0	0	0	0	851,000	
A 31 Construction Managemen		304,000	0	0	0	0	0	304,000	
Bayou Fountain		3,634,520	363,355	0	0	0	0	3,997,875	
B Jones Creek									
B 01 Lands and Damages		393,020	0	0	0	0	0	393,020	
B 06 Fish & Wildlife Facili		41,363	10,341	0	0	0	0	51,704	
B 09 Channels and Canals		28,362,480	7,090,620	0	0	0	0	35,453,100	
B 14 Recreation Facilities		727,037	181,759	0	0	0	0	908,797	
B 29 Project Cooperation Ag		1,700	0	0	0	0	0	1,700	
B 30 Engineering and Design		2,504,000	0	0	0	0	0	2,504,000	
B 31 Construction Managemen		2,649,000	0	0	0	0	0	2,649,000	
Jones Creek		34,678,601	7,282,720	0	0	0	0	41,961,321	
C Beaver Bayou									
C 01 Lands and Damages		1,512,590	0	0	0	0	0	1,512,590	
C 02 Relocations		1,682,240	0	0	0	0	0	1,682,240	
C 06 Fish & Wildlife Facili		45,808	11,452	0	0	0	0	57,259	
C 09 Channels and Canals		9,570,656	2,392,664	0	0	0	0	11,963,320	
C 29 Project Cooperation Ag		4,100	0	0	0	0	0	4,100	
C 30 Engineering and Design		1,250,000	0	0	0	0	0	1,250,000	
C 31 Construction Managemen		583,000	0	0	0	0	0	583,000	
Beaver Bayou		14,648,393	2,404,116	0	0	0	0	17,052,509	
D Blackwater Bayou									
D 01 Lands & Damages		1,476,000	0	0	0	0	0	1,476,000	
D 02 Relocations		1,675,680	0	0	0	0	0	1,675,680	
D 06 Fish & Wildlife Facili		39,885	9,971	0	0	0	0	49,856	
D 09 Channels and Canals		10,250,380	2,562,595	0	0	0	0	12,812,975	
D 29 Project Cooperation Ag		4,100	0	0	0	0	0	4,100	
D 30 Engineering and Design		1,226,000	0	0	0	0	0	1,226,000	
D 31 Construction Managemen		708,000	0	0	0	0	0	708,000	
Blackwater Bayou		15,380,045	2,572,566	0	0	0	0	17,952,611	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 2 **

TIME 10:16:01

SUMMARY PAGE 23

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
E Ward Creek										
E 01 Lands and Damages			122,540	0	0	0	0	0	122,540	
E 06 Fish & Wildlife Facili			11,854	2,963	0	0	0	0	14,817	
E 09 Channels and Canals			4,607,900	1,151,975	0	0	0	0	5,759,875	
E 29 Project Cooperation Ag			2,400	0	0	0	0	0	2,400	
E 30 Engineering and Design			1,303,000	0	0	0	0	0	1,303,000	
E 31 Construction Managemen			467,000	0	0	0	0	0	467,000	
<hr/>										
Ward Creek			6,514,694	1,154,938	0	0	0	0	7,669,632	
<hr/>										
East Baton Rouge Psh F Contingency	1.00	EA	74,856,253	13777696	0	0	0	0	88,633,948	88633948
									20,466,052	
<hr/>										
TOTAL INCL OWNER COSTS									109,100,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

QUANTITY UOM		DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
A Bayou Fountain									
A 01 Lands and Damages									
A 0100 Lands and Damages									
A 010000 Lands and Damages									
A 01000000 Lands and Damage									
Lands and Dam		1,019,000	0	0	0	0	0	1,019,000	
Lands and Dam		1,019,000	0	0	0	0	0	1,019,000	
Lands and Dam		1,019,000	0	0	0	0	0	1,019,000	
Lands and Dam		1,019,000	0	0	0	0	0	1,019,000	
A 02 Relocations									
A 0200 Relocations									
A 020000 Relocations									
A 02000000 Relocations									
Relocations		3,000	0	0	0	0	0	3,000	
Relocations		3,000	0	0	0	0	0	3,000	
Relocations		3,000	0	0	0	0	0	3,000	
Relocations		3,000	0	0	0	0	0	3,000	
A 06 Fish & Wildlife Facili									
A 0603 Wildlife Facilities									
A 060371 Fences									
A 06037102 Sitework									
A 06037102 01 Fencing - bar	1378.00 LF	6,008	1,502	0	0	0	0	7,510	
Sitework		6,008	1,502	0	0	0	0	7,510	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 25

QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
----------	-----	--------	----------	----------	----------	--------	------	------------	-----------

Fences		6,008	1,502	0	0	0	0	7,510	
--------	--	-------	-------	---	---	---	---	-------	--

A 060373 Habitat and Feedin

A 06037302 Sitework

A 06037302 01 Planting Tree	24.00 AC	2,880	720	0	0	0	0	3,600	150.00
Sitework		2,880	720	0	0	0	0	3,600	
Habitat and F		2,880	720	0	0	0	0	3,600	
Wildlife Faci		8,888	2,222	0	0	0	0	11,110	
Fish & Wildli		8,888	2,222	0	0	0	0	11,110	

A 09 Channels and Canals

0901 Channels

A 090101 Mob & Demob

A 09010101 Mob & Demob

A 09010101 01 Mob & Demob		80,000	20,000	0	0	0	0	100,000	
Mob & Demob		80,000	20,000	0	0	0	0	100,000	
Mob & Demob		80,000	20,000	0	0	0	0	100,000	

A 090115 Mechanical Dredgin

A 09011502 Sitework

A 09011502 01 Clearing and	8.00 MI	121,600	30,400	0	0	0	0	152,000	19000.00
A 09011502 02 Clearing for	47.00 AC	221,840	55,460	0	0	0	0	277,300	5900.00
A 09011502 03 Excavation	283000.00 CY	882,960	220,740	0	0	0	0	1,103,700	3.90
Sitework		1,226,400	306,600	0	0	0	0	1,533,000	
Mechanical Dr		1,226,400	306,600	0	0	0	0	1,533,000	

090130 Bank Stabilization

A 09013002 Sitework

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
A 09013002 01 Filter Drain	6460.00	SY	38,760	9,690	0	0	0	0	48,450	7.50
A 09013002 02 sand (8" thic	160.00	CY	960	240	0	0	0	0	1,200	7.50
A 09013002 03 riprap 16" -	890.00	TON	16,376	4,094	0	0	0	0	20,470	23.00
Sitework			56,096	14,024	0	0	0	0	70,120	
A 09013003 Concrete										
A 09013003 01 1 FT U-frame	67.00	CY	9,648	2,412	0	0	0	0	12,060	180.00
A 09013003 02 1 FT U-frame	100.00	CY	24,000	6,000	0	0	0	0	30,000	300.00
A 09013003 03 Channel Wall	55.00	CY	5,720	1,430	0	0	0	0	7,150	130.00
A 09013003 04 Channel Wall	43.00	CY	5,160	1,290	0	0	0	0	6,450	150.00
A 09013003 05 Channel Wall	62.00	CY	7,440	1,860	0	0	0	0	9,300	150.00
Concrete			51,968	12,992	0	0	0	0	64,960	
Bank Stabiliz			108,064	27,016	0	0	0	0	135,080	
A 090199 Associated General										
A 09019905 Metals										
A 09019905 01 Fence (chain	300.00	LF	1,980	495	0	0	0	0	2,475	8.25
Metals			1,980	495	0	0	0	0	2,475	
A 09019906 Aesthetic Plant										
A 09019906 01 Aesthetic Tre	1050.00	EA	12,600	3,150	0	0	0	0	15,750	15.00
A 09019906 02 Aesthetic Shr	1760.00	EA	15,488	3,872	0	0	0	0	19,360	11.00
Aesthetic Pla			28,088	7,022	0	0	0	0	35,110	
Associated Ge			30,068	7,517	0	0	0	0	37,585	
Channels			1,444,532	361,133	0	0	0	0	1,805,665	
Channels and			1,444,532	361,133	0	0	0	0	1,805,665	
A 29 Project Cooperation Ag										
A 2900 Project Cooperation										
A 290000 Project Cooperatio										
A 29000000 Project Cooperat										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 27

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Project Coope	4,100		0	0	0	0	0	0	4,100	
Project Coope	4,100		0	0	0	0	0	0	4,100	
Project Coope	4,100		0	0	0	0	0	0	4,100	
Project Coope	4,100		0	0	0	0	0	0	4,100	
A 30 Engineering and Design										
A 3000 Engineering and Desi										
A 300000 Engineering and De										
A 30000000 Engineering and										
Engineering a	851,000		0	0	0	0	0	0	851,000	
Engineering a	851,000		0	0	0	0	0	0	851,000	
Engineering a	851,000		0	0	0	0	0	0	851,000	
Engineering a	851,000		0	0	0	0	0	0	851,000	
A 31 Construction Managemen										
A 3100 Construction Managem										
A 310000 Construction Manag										
A 31000000 Construction Man										
Construction	304,000		0	0	0	0	0	0	304,000	
Construction	304,000		0	0	0	0	0	0	304,000	
Construction	304,000		0	0	0	0	0	0	304,000	
Construction	304,000		0	0	0	0	0	0	304,000	
Bayou Fountai	3,634,520		363,355	0	0	0	0	0	3,997,875	
B Jones Creek										
B 01 Lands and Damages										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>										
B 0100 Lands and Damages										
B 010000 Lands and Damages										
B 01000000 Lands and Damage										
	Lands and Dam		393,020	0	0	0	0	0	393,020	
	Lands and Dam		393,020	0	0	0	0	0	393,020	
	Lands and Dam		393,020	0	0	0	0	0	393,020	
	Lands and Dam		393,020	0	0	0	0	0	393,020	
B 06 Fish & Wildlife Facili										
B 0603 Wildlife Facilities										
B 060371 Fences										
B 06037102 Sitework										
B 06037102 01	Fencing - bar	6432.00 LF	28,043	7,011	0	0	0	0	35,054	5.45
	Sitework		28,043	7,011	0	0	0	0	35,054	
	Fences		28,043	7,011	0	0	0	0	35,054	
B 060373 Habitat and Feedin										
B 06037302 Sitework										
B 06037302 01	Planting Tree	111.00 AC	13,320	3,330	0	0	0	0	16,650	150.00
	Sitework		13,320	3,330	0	0	0	0	16,650	
	Habitat and F		13,320	3,330	0	0	0	0	16,650	
	Wildlife Faci		41,363	10,341	0	0	0	0	51,704	
	Fish & Wildli		41,363	10,341	0	0	0	0	51,704	
B 09 Channels and Canals										
B 0901 Channels										
B 090101 Mob & Demob										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 29

		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>										
B 09010101	Mob & Demob									
B 09010101 01	Mob & Demob		376,000	94,000	0	0	0	0	470,000	
	Mob & Demob		376,000	94,000	0	0	0	0	470,000	
	Mob & Demob		376,000	94,000	0	0	0	0	470,000	
B 090115	Mechanical Dredgin									
B 09011502	Site Work									
B 09011502 01	Clearing for	272.00 AC	674,560	168,640	0	0	0	0	843,200	3100.00
B 09011502 02	Degrading, ha	162000.00 CY	1,296,000	324,000	0	0	0	0	1,620,000	10.00
B 09011502 03	Clearing and	3.00 MI	45,600	11,400	0	0	0	0	57,000	19000.00
	Site Work		2,016,160	504,040	0	0	0	0	2,520,200	
	Mechanical Dr		2,016,160	504,040	0	0	0	0	2,520,200	
B 090130	Bank Stabilization									
B 09013002	Site Work									
B 09013002 01	sand (8" thic	84000.00 CY	779,520	194,880	0	0	0	0	974,400	11.60
B 09013002 02	Filter Drain	418700.00 SY	2,512,200	628,050	0	0	0	0	3,140,250	7.50
B 09013002 03	Fuseplug Dams		86,400	21,600	0	0	0	0	108,000	
	Site Work		3,378,120	844,530	0	0	0	0	4,222,650	
B 09013003	Concrete									
B 09013003 01	Cutoff Wall	6150.00 CY	738,000	184,500	0	0	0	0	922,500	150.00
B 09013003 02	Channel Wall	82300.00 CY	8,559,200	2,139,800	0	0	0	0	10,699,000	130.00
B 09013003 03	Channel Wall	61300.00 CY	7,356,000	1,839,000	0	0	0	0	9,195,000	150.00
B 09013003 04	Channel Wall	11000.00 CY	1,320,000	330,000	0	0	0	0	1,650,000	150.00
B 09013003 05	drain ditch	33100.00 CY	3,442,400	860,600	0	0	0	0	4,303,000	130.00
	Concrete		21,415,600	5,353,900	0	0	0	0	26,769,500	
	Bank Stabiliz		24,793,720	6,198,430	0	0	0	0	30,992,150	
B 090199	Associated General									
B 09019905	Metals									

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

QUANTITY UOM			DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>										
B 09019905 01	Fence (chain	171000.00 LF	1,128,600	282,150	0	0	0	0	1,410,750	8.25
	Metals		1,128,600	282,150	0	0	0	0	1,410,750	
<hr/>										
B 09019906	Aesthetic Planti									
B 09019906 01	Aesthetic Tre	1800.00 EA	21,600	5,400	0	0	0	0	27,000	15.00
B 09019906 02	Aesthetic Shr	3000.00 EA	26,400	6,600	0	0	0	0	33,000	11.00
	Aesthetic Pla		48,000	12,000	0	0	0	0	60,000	
	Associated Co		1,176,600	294,150	0	0	0	0	1,470,750	
	Channels		28,362,480	7,090,620	0	0	0	0	35,453,100	
	Channels and		28,362,480	7,090,620	0	0	0	0	35,453,100	
<hr/>										
B 14	Recreation Facilities									
B 1400										
B 140022	Parking Lots and S									
B 14002202	Site Work									
B 14002202 02	Bridge - 10'		18,800	4,700	0	0	0	0	23,500	
B 14002202 03	Bridge - 10'		84,800	21,200	0	0	0	0	106,000	
B 14002202 04	Signs & Marke	20.00 EA	2,560	640	0	0	0	0	3,200	160.00
B 14002202 05	Trees	4431.00 EA	53,172	13,293	0	0	0	0	66,465	15.00
B 14002202 06	Fence (6' Woo	55440.00 LF	567,706	141,926	0	0	0	0	709,632	12.80
	Site Work		727,037	181,759	0	0	0	0	908,797	
	Parking Lots		727,037	181,759	0	0	0	0	908,797	
			727,037	181,759	0	0	0	0	908,797	
	Recreation Fa		727,037	181,759	0	0	0	0	908,797	
B 29	Project Cooperation Ag									
B 2900	Project Cooperation									
B 290000	Project Cooperatio									
B 29000000	Project Cooperat									

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 31

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Project Coops	1,700		0	0	0	0	0	0	1,700	
Project Coops	1,700		0	0	0	0	0	0	1,700	
Project Coops	1,700		0	0	0	0	0	0	1,700	
Project Coops	1,700		0	0	0	0	0	0	1,700	
B 30 Engineering and Design										
B 3000 Engineering and Desi										
B 300000 Engineering and De										
B 30000000 Engineering and										
Engineering a	2,504,000		0	0	0	0	0	0	2,504,000	
Engineering a	2,504,000		0	0	0	0	0	0	2,504,000	
Engineering a	2,504,000		0	0	0	0	0	0	2,504,000	
Engineering a	2,504,000		0	0	0	0	0	0	2,504,000	
B 31 Construction Managemen										
B 3100 Construction Managem										
B 310000 Construction Manag										
B 31000000 Construction Man										
Construction	2,649,000		0	0	0	0	0	0	2,649,000	
Construction	2,649,000		0	0	0	0	0	0	2,649,000	
Construction	2,649,000		0	0	0	0	0	0	2,649,000	
Construction	2,649,000		0	0	0	0	0	0	2,649,000	
Jones Creek	34,678,601	7,282,720	0	0	0	0	0	0	41,961,321	
C Beaver Bayou										
U1 Lands and Damages										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 12

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>										
C 0100 Lands and Damages										
C 010000 Lands and Damages										
C 01000000 Lands and Damage										
Lands and Dam	1,512,590		0	0	0	0	0	0	1,512,590	
Lands and Dam	1,512,590		0	0	0	0	0	0	1,512,590	
Lands and Dam	1,512,590		0	0	0	0	0	0	1,512,590	
Lands and Dam	1,512,590		0	0	0	0	0	0	1,512,590	
C 02 Relocations										
C 0200 Relocations										
C 020000 Relocations										
C 02000000 Relocations										
Relocations	1,682,240		0	0	0	0	0	0	1,682,240	
Relocations	1,682,240		0	0	0	0	0	0	1,682,240	
Relocations	1,682,240		0	0	0	0	0	0	1,682,240	
Relocations	1,682,240		0	0	0	0	0	0	1,682,240	
C 06 Fish & Wildlife Facili										
C 0603 Wildlife Facilities										
C 060371 Fences										
C 06037102 Sitework										
C 06037102 D1 Fencing - bar	7121.00	LF	31,048	7,762	0	0	0	0	38,809	5.45
Sitework			31,048	7,762	0	0	0	0	38,809	
Fences			31,048	7,762	0	0	0	0	38,809	
C 060373 Habitat and Feedin										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 33

		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
C 06037302 Sitework										
C 06037302 01	Planting Tree	123.00 AC	14,760	3,690	0	0	0	0	18,450	150.00
	Sitework		14,760	3,690	0	0	0	0	18,450	
	Habitat and F		14,760	3,690	0	0	0	0	18,450	
	Wildlife Faci		45,808	11,452	0	0	0	0	57,259	
	Fish & Wildli		45,808	11,452	0	0	0	0	57,259	
C 09 Channels and Canals										
C 0901 Channels										
C 090101 Mob & Demob										
C 09010101 Mob & Demob										
C 09010101 01	Mob & Demob		176,000	44,000	0	0	0	0	220,000	
	Mob & Demob		176,000	44,000	0	0	0	0	220,000	
	Mob & Demob		176,000	44,000	0	0	0	0	220,000	
C 090115 Mechanical Dredgin										
C 09011502 Sitework										
C 09011502 01	Clearing for	220.00 AC	1,038,400	259,600	0	0	0	0	1,298,000	5900.00
C 09011502 02	Excavation	695000.00 CY	3,113,600	778,400	0	0	0	0	3,892,000	5.60
	Sitework		4,152,000	1,038,000	0	0	0	0	5,189,999	
	Mechanical Dr		4,152,000	1,038,000	0	0	0	0	5,189,999	
C 090130 Bank Stabilization										
C 09013002 Site Work										
C 09013002 01	Geotextile Ma	545100.00 SY	2,616,480	654,120	0	0	0	0	3,270,600	6.00
C 09013002 02	R-90 Stone	130200.00 TN	1,926,960	481,740	0	0	0	0	2,408,700	18.50
C 09013002 03	Hydromulch	322400.00 SY	64,480	16,120	0	0	0	0	80,600	0.25
C 09013002 04	Excavation fo	115700.00 CY	518,336	129,584	0	0	0	0	647,920	5.60
C 09013002 05	Fuseplug Dams		62,400	15,600	0	0	0	0	78,000	
	Site Work		5,188,656	1,297,164	0	0	0	0	6,485,821	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 24

		QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>											
C 09013003 Concrete											
	Bank Stabiliz	5,188,656		1,297,164		0	0	0	0	6,485,821	
C 090199 Associated General											
C 09019906 Aesthetic Planti											
C 09019906 01	Aesthetic Tre	4500.00	EA	54,000	13,500	0	0	0	0	67,500	15.00
	Aesthetic Pla			54,000	13,500	0	0	0	0	67,500	
	Associated Ge			54,000	13,500	0	0	0	0	67,500	
	Channels			9,570,656	2,392,664	0	0	0	0	11,963,320	
	Channels and			9,570,656	2,392,664	0	0	0	0	11,963,320	
C 29 Project Cooperation Ag											
C 2900 Project Cooperation											
C 290000 Project Cooperatio											
C 29000000 Project Cooperat											
	Project Coope	4,100		0	0	0	0	0	0	4,100	
	Project Coope	4,100		0	0	0	0	0	0	4,100	
	Project Coope	4,100		0	0	0	0	0	0	4,100	
	Project Coope	4,100		0	0	0	0	0	0	4,100	
C 30 Engineering and Design											
C 3000 Engineering and Desi											
C 300000 Engineering and De											
C 30000000 Engineering and											
	Engineering a	1,250,000		0	0	0	0	0	0	1,250,000	
	Engineering a	1,250,000		0	0	0	0	0	0	1,250,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 35

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Engineering a	1,250,000		0	0	0	0	0	0	1,250,000	
Engineering a	1,250,000		0	0	0	0	0	0	1,250,000	
C 31 Construction Managemen										
C 3100 Construction Managem										
C 310000 Construction Manag										
C 31000000 Construction Man										
Construction	583,000		0	0	0	0	0	0	583,000	
Construction	583,000		0	0	0	0	0	0	583,000	
Construction	583,000		0	0	0	0	0	0	583,000	
Construction	583,000		0	0	0	0	0	0	583,000	
Beaver Bayou	14,648,393		2,404,116	0	0	0	0	0	17,052,509	
D Blackwater Bayou										
D 01 Lands & Damages										
D 0100 Lands & Damages										
D 010000 Lands & Damages										
D 01000000 Lands & Damages										
Lands & Damag	1,476,000		0	0	0	0	0	0	1,476,000	
Lands & Damag	1,476,000		0	0	0	0	0	0	1,476,000	
Lands & Damag	1,476,000		0	0	0	0	0	0	1,476,000	
Lands & Damag	1,476,000		0	0	0	0	0	0	1,476,000	
D 02 Relocations										
0200 Relocations										
D 020000 Relocations										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

		QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
D 02000000 Relocations											
	Relocations	1,675,680		0	0	0	0	0	0	1,675,680	
	Relocations	1,675,680		0	0	0	0	0	0	1,675,680	
	Relocations	1,675,680		0	0	0	0	0	0	1,675,680	
	Relocations	1,675,680		0	0	0	0	0	0	1,675,680	
D 06 Fish & Wildlife Facili											
D 0603 Wildlife Facilities											
D 060371 Fences											
D 06037102 Sitework											
D 06037102 01	Fencing - bar	6203.00	LF	27,045	6,761	0	0	0	0	33,806	
	Sitework			27,045	6,761	0	0	0	0	33,806	
	Fences			27,045	6,761	0	0	0	0	33,806	
D 060373 Habitat and Feedin											
D 06037302 Sitework											
D 06037302 01	Planting Tree	107.00	AC	12,840	3,210	0	0	0	0	16,050	150.00
	Sitework			12,840	3,210	0	0	0	0	16,050	
	Habitat and F			12,840	3,210	0	0	0	0	16,050	
	Wildlife Faci			39,885	9,971	0	0	0	0	49,856	
	Fish & Wildli			39,885	9,971	0	0	0	0	49,856	
D 09 Channels and Canals											
D 0901 Channels											
D 090101 Mob & Demob											
D 09010101 Mob & Demob											
D 09010101 01	Mob & Demob			120,000	30,000	0	0	0	0	150,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 37

		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Mob & Demob			120,000	30,000	0	0	0	0	150,000	
Mob & Demob			120,000	30,000	0	0	0	0	150,000	
D 090115 Mechanical Dredgin										
D 09011502 Site Work										
D 09011502 01	Clearing for	164.00 AC	774,080	193,520	0	0	0	0	967,600	5900.00
D 09011502 02	Excavation	517600.00 CY	2,111,808	527,952	0	0	0	0	2,639,760	5.10
Site Work			2,885,888	721,472	0	0	0	0	3,607,360	
Mechanical Dr			2,885,888	721,472	0	0	0	0	3,607,360	
D 090130 Bank Stabilization										
09013002 Site Work										
D 09013002 01	Geotextile Ma	887000.00 SY	4,257,600	1,064,400	0	0	0	0	5,322,000	6.00
D 09013002 02	R-90 Stone	137800.00 TN	2,149,680	537,420	0	0	0	0	2,687,100	19.50
D 09013002 03	Hydromulch	551500.00 SY	110,300	27,575	0	0	0	0	137,875	0.25
D 09013002 04	Excavation fo	141400.00 CY	576,912	144,228	0	0	0	0	721,140	5.10
D 09013002 05	Fuseplug Dams		81,600	20,400	0	0	0	0	102,000	
Site Work			7,176,092	1,794,023	0	0	0	0	8,970,115	
Bank Stabiliz			7,176,092	1,794,023	0	0	0	0	8,970,115	
D 090199 Associated General										
D 09019906 Aesthetic Planti										
D 09019906 01	Aesthetic Tre	5700.00 EA	68,400	17,100	0	0	0	0	85,500	15.00
Aesthetic Pla			68,400	17,100	0	0	0	0	85,500	
Associated Ge			68,400	17,100	0	0	0	0	85,500	
Channels			10,250,380	2,562,595	0	0	0	0	12,812,975	
Channels and			10,250,380	2,562,595	0	0	0	0	12,812,975	
D 29 Project Cooperation Ag										
D 2900 Project Cooperation										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 38

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
D 290000 Project Cooperatio										
D 29000000 Project Cooperat										
Project Coope	4,100		0	0	0	0	0	0	4,100	
Project Coope	4,100		0	0	0	0	0	0	4,100	
Project Coope	4,100		0	0	0	0	0	0	4,100	
Project Coope	4,100		0	0	0	0	0	0	4,100	
D 30 Engineering and Design										
D 3000 Engineering and Desi										
D 300000 Engineering and De										
D 30000000 Engineering and										
Engineering a	1,226,000		0	0	0	0	0	0	1,226,000	
Engineering a	1,226,000		0	0	0	0	0	0	1,226,000	
Engineering a	1,226,000		0	0	0	0	0	0	1,226,000	
Engineering a	1,226,000		0	0	0	0	0	0	1,226,000	
D 31 Construction Managemen										
D 3100 Construction Managem										
D 310000 Construction Manag										
D 31000000 Construction Man										
Construction	708,000		0	0	0	0	0	0	708,000	
Construction	708,000		0	0	0	0	0	0	708,000	
Construction	708,000		0	0	0	0	0	0	708,000	
Construction	708,000		0	0	0	0	0	0	708,000	
Blackwater Ba	15,380,045	2,572,566	0	0	0	0	0	0	17,952,611	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

SUMMARY PAGE 39

** PROJECT INDIRECT SUMMARY - LEVEL 6 **

QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
----------	-----	--------	----------	----------	----------	--------	------	------------	-----------

E Ward Creek

E 01 Lands and Damages

E 0100 Lands and Damages

E 010000 Lands and Damages

E 01000000 Lands and Damage

Lands and Dam	122,540	0	0	0	0	0	0	122,540
Lands and Dam	122,540	0	0	0	0	0	0	122,540
Lands and Dam	122,540	0	0	0	0	0	0	122,540
Lands and Dam	122,540	0	0	0	0	0	0	122,540

06 Fish & Wildlife Facili

E 0603 Wildlife Facilities

E 060371 Fences

E 06037102 Sitework

E 06037102 01 Fencing - bar	1838.00 LF	8,014	2,003	0	0	0	0	10,017	5.45
Sitework		8,014	2,003	0	0	0	0	10,017	
Fences		8,014	2,003	0	0	0	0	10,017	

E 060373 Habitat and Feedin

E 06037302 Sitework

E 06037302 01 Planting Tree	32.00 AC	3,840	960	0	0	0	0	4,800	149.99
Sitework		3,840	960	0	0	0	0	4,800	
Habitat and F		3,840	960	0	0	0	0	4,800	
Wildlife Faci		11,854	2,963	0	0	0	0	14,817	
Fish & Wildli		11,854	2,963	0	0	0	0	14,817	

E 09 Channels and Canals

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 40

QUANTITY UOM			DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
E 0901 Channels										
E 090101 Mob & Demob										
E 09010101 Mob & Demob										
E 09010101 01	Mob & Demob		120,000	30,000	0	0	0	0	150,000	
	Mob & Demob		120,000	30,000	0	0	0	0	150,000	
	Mob & Demob		120,000	30,000	0	0	0	0	150,000	
E 090115 Mechanical Dredgin										
E 09011502 Sitework										
E 09011502 01	Clearing for	20.00 AC	94,400	23,600	0	0	0	0	118,000	5900.00
E 09011502 02	Excavation	143000.00 CY	772,200	193,050	0	0	0	0	965,250	6.75
E 09011502 03	Clearing and	13.00 MI	197,600	49,400	0	0	0	0	247,000	19000.00
	Sitework		1,064,200	266,050	0	0	0	0	1,330,250	
	Mechanical Dr		1,064,200	266,050	0	0	0	0	1,330,250	
E 090130 Bank Stabilization										
E 09013002 Sitework										
E 09013002 01	sand (8" thic	13200.00 CY	110,880	27,720	0	0	0	0	138,600	10.50
E 09013002 02	Filter Drain	59300.00 SY	355,800	88,950	0	0	0	0	444,750	7.50
E 09013002 03	Fuseplug Dams		32,000	8,000	0	0	0	0	40,000	
	Sitework		498,680	124,670	0	0	0	0	623,350	
E 09013003 Concrete										
E 09013003 01	Cutoff wall	400.00 CY	48,000	12,000	0	0	0	0	60,000	150.00
E 09013003 02	Channel Wall	8800.00 CY	915,200	228,800	0	0	0	0	1,144,000	130.00
E 09013003 03	Channel Wall	6600.00 CY	792,000	198,000	0	0	0	0	990,000	150.00
E 09013003 04	Channel Wall	4500.00 CY	540,000	135,000	0	0	0	0	675,000	150.00
E 09013003 05	drain ditch	2200.00 CY	228,800	57,200	0	0	0	0	286,000	130.00
	Concrete		2,524,000	631,000	0	0	0	0	3,155,000	
	Bank Stabiliz		3,022,680	755,670	0	0	0	0	3,778,350	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 41

		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
E 090199 Associated General										
E 09019902 Sitework (Constr										
E 09019902 01	excavation	6500.00 CY	37,700	9,425	0	0	0	0	47,125	7.25
E 09019902 02	Filter Fabric	19400.00 SY	54,320	13,580	0	0	0	0	67,900	3.50
E 09019902 03	Crushed stone	9000.00 TON	172,800	43,200	0	0	0	0	216,000	24.00
E 09019902 04	Obstruction R	5600.00 LF	44,800	11,200	0	0	0	0	56,000	10.00
Sitework (Con			309,620	77,405	0	0	0	0	387,025	
E 09019905 Metals										
E 09019905 01	Fence (chain	11200.00 LF	73,920	18,480	0	0	0	0	92,400	8.25
Metals			73,920	18,480	0	0	0	0	92,400	
E 09019906 Aesthetic Planti										
E 09019906 01	Aesthetic Tre	650.00 EA	7,800	1,950	0	0	0	0	9,750	15.00
E 09019906 02	Aesthetic Shr	1100.00 EA	9,680	2,420	0	0	0	0	12,100	11.00
Aesthetic Pla			17,480	4,370	0	0	0	0	21,850	
Associated Ge			401,020	100,255	0	0	0	0	501,275	
Channels			4,607,900	1,151,975	0	0	0	0	5,759,875	
Channels and			4,607,900	1,151,975	0	0	0	0	5,759,875	
E 29 Project Cooperation Ag										
E 2900 Project Cooperation										
E 290000 Project Cooperatio										
E 29000000 Project Cooperat										
Project Coops			2,400	0	0	0	0	0	2,400	
Project Coops			2,400	0	0	0	0	0	2,400	
Project Coops			2,400	0	0	0	0	0	2,400	
Project Coops			2,400	0	0	0	0	0	2,400	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 42

	QUANTITY	UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>										
E 30 Engineering and Design										
E 3000 Engineering and Desi										
E 300000 Engineering and De										
E 30000000 Engineering and										
Engineering a	1,303,000		0	0	0	0	0	0	1,303,000	
Engineering a	1,303,000		0	0	0	0	0	0	1,303,000	
Engineering a	1,303,000		0	0	0	0	0	0	1,303,000	
Engineering a	1,303,000		0	0	0	0	0	0	1,303,000	
E 31 Construction Management										
E 3100 Construction Managem										
E 310000 Construction Manag										
E 31000000 Construction Man										
Construction	467,000		0	0	0	0	0	0	467,000	
Construction	467,000		0	0	0	0	0	0	467,000	
Construction	467,000		0	0	0	0	0	0	467,000	
Construction	467,000		0	0	0	0	0	0	467,000	
Ward Creek	6,514,694		1,154,938	0	0	0	0	0	7,669,632	
East Baton Ro	1.00	EA	74,856,253	13777696	0	0	0	0	88,633,948	88633948
Contingency									20,466,052	
TOTAL INCL OWNER COSTS									109,100,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

SUMMARY PAGE 43

** PROJECT DIRECT SUMMARY - LEVEL 2 **

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A Bayou Fountain								
A 01 Lands and Damages			0	1,000,000	0	19,000	1,019,000	
A 02 Relocations			0	0	0	3,000	3,000	
A 06 Fish & Wildlife Facilities			3,738	679	3,577	894	8,888	
A 09 Channels and Canals			578,188	638,375	65,036	162,933	1,444,532	
A 29 Project Cooperation Agreements			0	0	0	4,100	4,100	
A 30 Engineering and Design			0	0	0	851,000	851,000	
A 31 Construction Management			0	0	0	304,000	304,000	
Bayou Fountain			581,926	1,639,054	68,613	1,344,927	3,634,520	
B Jones Creek								
B 01 Lands and Damages			0	0	0	393,020	393,020	
B 06 Fish & Wildlife Facilities			17,408	3,164	16,648	4,144	41,363	
B 09 Channels and Canals			2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	
B 14 Recreation Facilities			155,388	14,270	453,031	104,348	727,037	
B 29 Project Cooperation Agreements			0	0	0	1,700	1,700	
B 30 Engineering and Design			0	2,000,000	0	504,000	2,504,000	
B 31 Construction Management			0	2,000,000	0	649,000	2,649,000	
Jones Creek			2,236,434	5,519,034	3,954,958	22,968,175	34,678,601	
C Beaver Bayou								
C 01 Lands and Damages			0	1,000,000	0	512,590	1,512,590	
C 02 Relocations			0	1,000,000	0	682,240	1,682,240	
C 06 Fish & Wildlife Facilities			19,281	3,505	18,437	4,585	45,808	
C 09 Channels and Canals			2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	
C 29 Project Cooperation Agreements			0	0	0	4,100	4,100	
C 30 Engineering and Design			0	1,000,000	0	250,000	1,250,000	
C 31 Construction Management			0	0	0	583,000	583,000	
Beaver Bayou			2,394,424	5,786,578	2,971,425	3,495,966	14,648,393	
D Blackwater Bayou								
D 01 Lands & Damages			0	1,000,000	0	476,000	1,476,000	
D 02 Relocations			0	1,000,000	0	675,680	1,675,680	
D 06 Fish & Wildlife Facilities			16,790	3,052	16,053	3,991	39,885	
D 09 Channels and Canals			2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	
D 29 Project Cooperation Agreements			0	0	0	4,100	4,100	
D 30 Engineering and Design			0	1,000,000	0	226,000	1,226,000	
D 31 Construction Management			0	0	0	708,000	708,000	
Blackwater Bayou			2,078,051	5,234,061	4,548,413	3,519,520	15,380,045	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 2 **

TIME 10:16:01

SUMMARY PAGE 44

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E Ward Creek								
E 01 Lands and Damages			0	0	0	122,540	122,540	
E 06 Fish & Wildlife Facilities			4,987	906	4,771	1,189	11,854	
E 09 Channels and Canals			664,825	652,870	461,483	2,828,723	4,607,900	
E 29 Project Cooperation Agreements			0	0	0	2,400	2,400	
E 30 Engineering and Design			0	1,000,000	0	303,000	1,303,000	
E 31 Construction Management			0	0	0	467,000	467,000	
Ward Creek			669,812	1,653,776	466,254	3,724,852	6,514,694	
<hr/>								
East Baton Rouge Psh Feas. - NED	1.00	EA	7,960,647	19,832,503	12,009,663	35,053,440	74,856,253	74856253
Distribution							13,777,696	
							<hr/>	
TOTAL INCL INDIRECTS							88,633,948	
Contingency							20,466,052	
							<hr/>	
TOTAL INCL OWNER COSTS							109,100,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 45

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A Bayou Fountain								
A 01 Lands and Damages								
A 0100 Lands and Damages								
A 010000 Lands and Damages								
A 01000000 Lands and Damages								
Lands and Damages	0		1,000,000	0	0	19,000	1,019,000	
Lands and Damages	0		1,000,000	0	0	19,000	1,019,000	
Lands and Damages	0		1,000,000	0	0	19,000	1,019,000	
Lands and Damages	0		1,000,000	0	0	19,000	1,019,000	
A 02 Relocations								
A 0200 Relocations								
A 020000 Relocations								
A 02000000 Relocations								
Relocations	0		0	0	0	3,000	3,000	
Relocations	0		0	0	0	3,000	3,000	
Relocations	0		0	0	0	3,000	3,000	
Relocations	0		0	0	0	3,000	3,000	
A 06 Fish & Wildlife Facilities								
A 0603 Wildlife Facilities & Sanctuary								
A 060371 Fences								
A 06037102 Sitework								
06037102 01 Fencing - barbed wire	1378.00	LF	2,727	496	2,411	374	6,008	4.36
Sitework			2,727	496	2,411	374	6,008	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 46

		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Fences			2,727	496	2,411	374	6,008	
A 060373 Habitat and Feeding Facilities								
A 06037302 Sitework								
A 06037302 01	Planting Trees	24.00 AC	1,010	184	1,166	520	2,880	120.00
	Sitework		1,010	184	1,166	520	2,880	
	Habitat and Feeding Facilit		1,010	184	1,166	520	2,880	
	Wildlife Facilities & Sanct		3,738	679	3,577	894	8,888	
	Fish & Wildlife Facilities		3,738	679	3,577	894	8,888	
A 09 Channels and Canals								
A 0901 Channels								
A 090101 Mob & Demob								
A 09010101 Mob & Demob								
A 09010101 01	Mob & Demob		30,030	21,019	0	28,952	80,000	
	Mob & Demob		30,030	21,019	0	28,952	80,000	
	Mob & Demob		30,030	21,019	0	28,952	80,000	
A 090115 Mechanical Dredging								
A 09011502 Sitework								
A 09011502 01	Clearing and Snagging	8.00 MI	57,931	58,230	0	5,440	121,600	15200.00
A 09011502 02	Clearing for Channel Dredgi	47.00 AC	113,448	102,427	0	5,965	221,840	4720.00
A 09011502 03	Excavation	283000.00 CY	354,806	450,010	0	78,143	882,960	3.12
	Sitework		526,185	610,667	0	89,548	1,226,400	
	Mechanical Dredging		526,185	610,667	0	89,548	1,226,400	
A 090130 Bank Stabilization								
A 09013002 Sitework								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 47

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013002 01 Filter Drain Fabric	6460.00	SY	2,731	1,214	34,535	281	38,760	6.00
A 09013002 02 sand (8" thick)	160.00	CY	320	320	0	320	960	6.00
A 09013002 03 riprap 16" - dry placement	890.00	TON	2,154	2,268	3,124	8,830	16,376	18.40
Sitework			5,204	3,802	37,659	9,431	56,096	
A 09013003 Concrete								
A 09013003 01 1 FT U-frame Base Slab	67.00	CY	0	0	0	9,648	9,648	144.00
A 09013003 02 1 FT U-frame wall	100.00	CY	0	0	0	24,000	24,000	240.00
A 09013003 03 Channel Wall Pavement (4")	55.00	CY	1,486	360	3,719	155	5,720	104.00
A 09013003 04 Channel Wall Pavement (6")	43.00	CY	1,956	265	2,684	255	5,160	120.00
A 09013003 05 Channel Wall Pavement (8")	62.00	CY	2,659	381	3,814	586	7,440	120.00
Concrete			6,102	1,006	10,216	34,644	51,968	
Bank Stabilization			11,306	4,808	47,875	44,075	108,064	
A 090199 Associated General Items								
A 09019905 Metals								
A 09019905 01 Fence (chain link)	300.00	LF	300	37	1,620	24	1,980	6.60
Metals			300	37	1,620	24	1,980	
A 09019906 Aesthetic Plantings								
A 09019906 01 Aesthetic Tree Planting	1050.00	EA	3,874	689	7,938	99	12,600	12.00
A 09019906 02 Aesthetic Shrub Planting	1760.00	EA	6,493	1,155	7,603	236	15,488	8.80
Aesthetic Plantings			10,367	1,844	15,541	335	28,088	
Associated General Items			10,667	1,881	17,161	359	30,068	
Channels			578,188	638,375	65,036	162,933	1,444,532	
Channels and Canals			578,188	638,375	65,036	162,933	1,444,532	
A 29 Project Cooperation Agreements								
A 2900 Project Cooperation Agreements								
290000 Project Cooperation Agreements								
A 29000000 Project Cooperation Agreements								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - WED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 49

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
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Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
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Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
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Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
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A 30 Engineering and Design

A 3000 Engineering and Design

A 300000 Engineering and Design

A 30000000 Engineering and Design

Engineering and Design	0		0	0	0	851,000	851,000	
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Engineering and Design	0		0	0	0	851,000	851,000	
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Engineering and Design	0		0	0	0	851,000	851,000	
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Engineering and Design	0		0	0	0	851,000	851,000	
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A 31 Construction Management

A 3100 Construction Management

A 310000 Construction Management

A 31000000 Construction Management

Construction Management	0		0	0	0	304,000	304,000	
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Construction Management	0		0	0	0	304,000	304,000	
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Construction Management	0		0	0	0	304,000	304,000	
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Construction Management	0		0	0	0	304,000	304,000	
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Bayou Fountain	581,926		1,639,054	68,613	1,344,927	3,634,520		
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B Jones Creek

B 01 Lands and Damages

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 49

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>								
B 0100 Lands and Damages								
B 010000 Lands and Damages								
B 01000000 Lands and Damages								
Lands and Damages			0	0	0	393,020	393,020	
Lands and Damages			0	0	0	393,020	393,020	
Lands and Damages			0	0	0	393,020	393,020	
Lands and Damages			0	0	0	393,020	393,020	
B 06 Fish & Wildlife Facilities								
B 0603 Wildlife Facilities & Sanctuary								
060371 Fences								
B 06037102 Sitework								
B 06037102 01 Fencing - barbed wire	6432.00	LF	12,728	2,313	11,253	1,749	28,043	4.36
Sitework			12,728	2,313	11,253	1,749	28,043	
Fences			12,728	2,313	11,253	1,749	28,043	
B 060373 Habitat and Feeding Facilities								
B 06037302 Sitework								
B 06037302 01 Planting Trees	111.00	AC	4,680	851	5,395	2,395	13,320	120.00
Sitework			4,680	851	5,395	2,395	13,320	
Habitat and Feeding Facilit			4,680	851	5,395	2,395	13,320	
Wildlife Facilities & Sanct			17,408	3,164	16,648	4,144	41,363	
Fish & Wildlife Facilities			17,408	3,164	16,648	4,144	41,363	
B 09 Channels and Canals								
B 0901 Channels								
B 090101 Mob & Demob								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 50

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09010101 Mob & Demob								
B 09010101 01 Mob & Demob			157,814	94,049	0	124,137	376,000	
Mob & Demob			157,814	94,049	0	124,137	376,000	
Mob & Demob			157,814	94,049	0	124,137	376,000	
B 090115 Mechanical Dredging								
B 09011502 Site Work								
B 09011502 01 Clearing for Channel Dredgi	272.00	AC	328,275	296,385	0	49,901	674,560	2480.00
B 09011502 02 Degrading, hauling, shaping	162000.00	CY	597,445	554,756	0	143,799	1,296,000	8.00
B 09011502 03 Clearing and Snagging	3.00	MI	21,724	21,837	0	2,039	45,600	15200.00
Site Work			947,444	872,978	0	195,738	2,016,160	
Mechanical Dredging			947,444	872,978	0	195,738	2,016,160	
B 090130 Bank Stabilization								
B 09013002 Site Work								
B 09013002 01 sand (8" thick)	84000.00	CY	282,045	330,985	0	166,491	779,520	9.28
B 09013002 02 Filter Drain Fabric	418700.00	SY	176,991	78,656	2,238,370	18,183	2,512,200	6.00
B 09013002 03 Fuseplug Dams			23,256	33,228	6,480	23,436	86,400	
Site Work			482,291	442,869	2,244,850	208,110	3,378,120	
B 09013003 Concrete								
B 09013003 01 Cutoff Wall	6150.00	CY	287,344	67,624	290,645	92,386	738,000	120.00
B 09013003 02 Channel Wall Pavement (4")	82300.00	CY	0	0	0	8,559,200	8,559,200	104.00
B 09013003 03 Channel Wall Pavement (6")	61300.00	CY	0	0	0	7,356,000	7,356,000	120.00
B 09013003 04 Channel Wall Pavement (8")	11000.00	CY	0	0	0	1,320,000	1,320,000	120.00
B 09013003 05 drain ditch	33100.00	CY	0	0	0	3,442,400	3,442,400	104.00
Concrete			287,344	67,624	290,645	20,769,986	21,415,600	
Bank Stabilization			769,635	510,493	2,535,496	20,978,096	24,793,720	
B 090199 Associated General Items								
B 09019905 Metals								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 51

	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>							
B 09019905 01 Fence (chain link)	171000.00 LF	171,036	20,930	923,215	13,418	1,128,600	6.60
Metals		171,036	20,930	923,215	13,418	1,128,600	
<hr/>							
B 09019906 Aesthetic Planting							
B 09019906 01 Aesthetic Tree Planting	1800.00 EA	6,641	1,181	13,608	170	21,600	12.00
B 09019906 02 Aesthetic Shrub Planting	3000.00 EA	11,068	1,968	12,960	404	26,400	8.80
Aesthetic Planting		17,709	3,149	26,568	574	48,000	
Associated General Items		188,745	24,079	949,783	13,992	1,176,600	
Channels		2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	
Channels and Canals		2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	
<hr/>							
B 14 Recreation Facilities							
B 1400							
B 140022 Parking Lots and Service Roads:							
B 14002202 Site Work							
B 14002202 02 Bridge - 10' x 50'		1,122	529	0	17,149	18,800	
B 14002202 03 Bridge - 10' x 150'		1,122	529	0	83,149	84,800	
B 14002202 04 Signs & Markers	20.00 EA	427	21	1,944	168	2,560	128.00
B 14002202 05 Trees	4431.00 EA	16,348	2,090	33,498	1,236	53,172	12.00
B 14002202 06 Fence (6' Wooden)	55440.00 LF	136,369	11,102	417,588	2,646	567,706	10.24
Site Work		155,388	14,270	453,031	104,348	727,037	
Parking Lots and Service Ro		155,388	14,270	453,031	104,348	727,037	
		155,388	14,270	453,031	104,348	727,037	
Recreation Facilities		155,388	14,270	453,031	104,348	727,037	
<hr/>							
B 29 Project Cooperation Agreements							
B 2900 Project Cooperation Agreements							
B 290000 Project Cooperation Agreements							
B 29000000 Project Cooperation Agreements							

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 52

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Project Cooperation Agreeme			0	0	0	1,700	1,700	
Project Cooperation Agreeme			0	0	0	1,700	1,700	
Project Cooperation Agreeme			0	0	0	1,700	1,700	
Project Cooperation Agreeme			0	0	0	1,700	1,700	
B 30 Engineering and Design								
B 3000 Engineering and Design								
B 300000 Engineering and Design								
B 30000000 Engineering and Design								
Engineering and Design			0	2,000,000	0	504,000	2,504,000	
Engineering and Design			0	2,000,000	0	504,000	2,504,000	
Engineering and Design			0	2,000,000	0	504,000	2,504,000	
Engineering and Design			0	2,000,000	0	504,000	2,504,000	
B 31 Construction Management								
B 3100 Construction Management								
B 310000 Construction Management								
B 31000000 Construction Management								
Construction Management			0	2,000,000	0	649,000	2,649,000	
Construction Management			0	2,000,000	0	649,000	2,649,000	
Construction Management			0	2,000,000	0	649,000	2,649,000	
Construction Management			0	2,000,000	0	649,000	2,649,000	
Jones Creek			2,236,434	5,519,034	3,954,958	22,968,175	34,678,601	
C Beaver Bayou								
C 01 Lands and Damages								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01
 SUMMARY PAGE 53

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 0100 Lands and Damages								
C 010000 Lands and Damages								
C 01000000 Lands and Damages								
Lands and Damages	0		1,000,000	0	0	512,590	1,512,590	
Lands and Damages	0		1,000,000	0	0	512,590	1,512,590	
Lands and Damages	0		1,000,000	0	0	512,590	1,512,590	
Lands and Damages	0		1,000,000	0	0	512,590	1,512,590	
C 02 Relocations								
C 0200 Relocations								
C 020000 Relocations								
C 02000000 Relocations								
Relocations	0		1,000,000	0	0	682,240	1,682,240	
Relocations	0		1,000,000	0	0	682,240	1,682,240	
Relocations	0		1,000,000	0	0	682,240	1,682,240	
Relocations	0		1,000,000	0	0	682,240	1,682,240	
C 06 Fish & Wildlife Facilities								
C 0603 Wildlife Facilities & Sanctuary								
C 060371 Fences								
C 06037102 Sitework								
C 06037102 01 Fencing - barbed wire	7121.00	LF	14,104	2,564	12,459	1,921	31,048	4.36
Sitework			14,104	2,564	12,459	1,921	31,048	
Fences			14,104	2,564	12,459	1,921	31,048	
C 060373 Habitat and Feeding Facilities								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 06037302 Sitework							
C 06037302 01 Planting Trees	123.00 AC	5,177	941	5,978	2,664	14,760	120.00
Sitework		5,177	941	5,978	2,664	14,760	
Habitat and Feeding Facilit		5,177	941	5,978	2,664	14,760	
Wildlife Facilities & Sanct		19,281	3,505	18,437	4,585	45,808	
Fish & Wildlife Facilities		19,281	3,505	18,437	4,585	45,808	
C 09 Channels and Canals							
C 0901 Channels							
C 090101 Mob & Demob							
C 09010101 Mob & Demob							
C 09010101 01 Mob & Demob		70,665	50,755	0	54,580	176,000	
Mob & Demob		70,665	50,755	0	54,580	176,000	
Mob & Demob		70,665	50,755	0	54,580	176,000	
C 090115 Mechanical Dredging							
C 09011502 Sitework							
C 09011502 01 Clearing for Channel Dredgi	220.00 AC	531,033	479,446	0	27,921	1,038,400	4720.00
C 09011502 02 Excavation	695000.00 CY	1,151,402	1,640,625	0	321,572	3,113,600	4.48
Sitework		1,682,435	2,120,071	0	349,493	4,152,000	
Mechanical Dredging		1,682,435	2,120,071	0	349,493	4,152,000	
C 090130 Bank Stabilization							
C 09013002 Site Work							
C 09013002 01 Geotextile Mat Turf Reinfor	545100.00 SY	147,930	28,672	2,413,703	26,175	2,616,480	4.80
C 09013002 02 R-90 Stone	130200.00 TN	236,872	276,022	457,002	957,065	1,926,960	14.80
C 09013002 03 Hydromulch	322400.00 SY	11,943	7,164	41,783	3,589	64,480	0.20
C 09013002 04 Excavation for stone	115700.00 CY	191,900	273,438	0	52,998	518,336	
C 09013002 05 Fuseplug Dams		16,796	23,998	6,480	15,126	62,400	
Site Work		605,441	609,294	2,918,968	1,054,953	5,188,656	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBRO01: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 55

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09013003 Concrete								
Bank Stabilization			605,441	609,294	2,918,968	1,054,953	5,188,656	
C 090199 Associated General Items								
C 09019906 Aesthetic Plantings								
C 09019906 01 Aesthetic Tree Planting	4500.00	EA	16,602	2,953	34,020	425	54,000	12.00
Aesthetic Plantings			16,602	2,953	34,020	425	54,000	
Associated General Items			16,602	2,953	34,020	425	54,000	
Channels			2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	
Channels and Canals			2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	
29 Project Cooperation Agreements								
C 2900 Project Cooperation Agreements								
C 290000 Project Cooperation Agreements								
C 29000000 Project Cooperation Agreements								
Project Cooperation Agreeme			0	0	0	4,100	4,100	
Project Cooperation Agreeme			0	0	0	4,100	4,100	
Project Cooperation Agreeme			0	0	0	4,100	4,100	
Project Cooperation Agreeme			0	0	0	4,100	4,100	
C 30 Engineering and Design								
C 3000 Engineering and Design								
C 300000 Engineering and Design								
C 30000000 Engineering and Design								
Engineering and Design			0	1,000,000	0	250,000	1,250,000	
Engineering and Design			0	1,000,000	0	250,000	1,250,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 56

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Engineering and Design	0		1,000,000	0	0	250,000	1,250,000	
Engineering and Design	0		1,000,000	0	0	250,000	1,250,000	
C 31 Construction Management								
C 3100 Construction Management								
C 310000 Construction Management								
C 31000000 Construction Management								
Construction Management	0		0	0	0	583,000	583,000	
Construction Management	0		0	0	0	583,000	583,000	
Construction Management	0		0	0	0	583,000	583,000	
Construction Management	0		0	0	0	583,000	583,000	
Beaver Bayou	2,394,424		5,786,578	2,971,425	3,495,966	14,648,393		
D Blackwater Bayou								
D 01 Lands & Damages								
D 0100 Lands & Damages								
D 010000 Lands & Damages								
D 01000000 Lands & Damages								
Lands & Damages	0		1,000,000	0	0	476,000	1,476,000	
Lands & Damages	0		1,000,000	0	0	476,000	1,476,000	
Lands & Damages	0		1,000,000	0	0	476,000	1,476,000	
Lands & Damages	0		1,000,000	0	0	476,000	1,476,000	
D 02 Relocations								
D 0200 Relocations								
D 020000 Relocations								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 57

QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 02000000 Relocations

Relocations	0	1,000,000	0	675,680	1,675,680	
Relocations	0	1,000,000	0	675,680	1,675,680	
Relocations	0	1,000,000	0	675,680	1,675,680	
Relocations	0	1,000,000	0	675,680	1,675,680	

D 06 Fish & Wildlife Facilities**D 0603 Wildlife Facilities & Sanctuary****D 06Q371 Fences****D 06037102 Sitework**

06037102 01 Fencing - barbed wire	6203.00 LF	12,286	2,233	10,853	1,673	27,045	4.36
Sitework		12,286	2,233	10,853	1,673	27,045	
Fences		12,286	2,233	10,853	1,673	27,045	

D 060373 Habitat and Feeding Facilities**D 06037302 Sitework**

06037302 01 Planting Trees	107.00 AC	4,504	819	5,200	2,318	12,840	120.00
Sitework		4,504	819	5,200	2,318	12,840	
Habitat and Feeding Facilit		4,504	819	5,200	2,318	12,840	
Wildlife Facilities & Sanct		16,790	3,052	16,053	3,991	39,885	
Fish & Wildlife Facilities		16,790	3,052	16,053	3,991	39,885	

D 09 Channels and Canals**D 0901 Channels****D 090101 Mob & Demob****D 09010101 Mob & Demob**

D 09010101 01 Mob & Demob	45,115	35,312	0	39,573	120,000	
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Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Mob & Demob			45,115	35,312	0	39,573	120,000	
Mob & Demob			45,115	35,312	0	39,573	120,000	
D 090115 Mechanical Dredging								
D 09011502 Site Work								
D 09011502 01	Clearing for Channel Dredgi	164.00 AC	395,861	357,405	0	20,814	774,080	4720.00
D 09011502 02	Excavation	517600.00 CY	811,554	1,098,549	0	201,704	2,111,808	4.08
Site Work			1,207,415	1,455,955	0	222,518	2,885,888	
Mechanical Dredging			1,207,415	1,455,955	0	222,518	2,885,888	
D 090130 Bank Stabilization								
D 09013002 Site Work								
D 09013002 01	Geotextile Mat Turf Reinfor	887000.00 SY	240,715	46,656	3,927,636	42,592	4,257,600	4.80
D 09013002 02	R-90 Stone	137800.00 TN	282,852	345,553	483,678	1,037,598	2,149,680	15.60
D 09013002 03	Hydromulch	551500.00 SY	20,430	12,256	71,474	6,140	110,300	0.20
D 09013002 04	Excavation for stone	141400.00 CY	221,741	300,156	0	55,016	576,912	4.08
D 09013002 05	Fuseplug Dams		21,964	31,382	6,480	21,774	81,600	
Site Work			787,702	736,002	4,489,268	1,163,119	7,176,092	
Bank Stabilization			787,702	736,002	4,489,268	1,163,119	7,176,092	
D 090199 Associated General Items								
D 09019906 Aesthetic Plantings								
D 09019906 01	Aesthetic Tree Planting	5700.00 EA	21,029	3,740	43,092	539	68,400	12.00
Aesthetic Plantings			21,029	3,740	43,092	539	68,400	
Associated General Items			21,029	3,740	43,092	539	68,400	
Channels			2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	
Channels and Canals			2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	
D 29 Project Cooperation Agreements								
D 2900 Project Cooperation Agreements								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 59

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 290000 Project Cooperation Agreements								
D 29000000 Project Cooperation Agreements								
Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
Project Cooperation Agreeme	0		0	0	0	4,100	4,100	
D 30 Engineering and Design								
D 3000 Engineering and Design								
D 300000 Engineering and Design								
D 30000000 Engineering and Design								
Engineering and Design	0		1,000,000	0	0	226,000	1,226,000	
Engineering and Design	0		1,000,000	0	0	226,000	1,226,000	
Engineering and Design	0		1,000,000	0	0	226,000	1,226,000	
Engineering and Design	0		1,000,000	0	0	226,000	1,226,000	
D 31 Construction Management								
D 3100 Construction Management								
D 310000 Construction Management								
D 31000000 Construction Management								
Construction Management	0		0	0	0	708,000	708,000	
Construction Management	0		0	0	0	708,000	708,000	
Construction Management	0		0	0	0	708,000	708,000	
Construction Management	0		0	0	0	708,000	708,000	
Blackwater Bayou	2,078,051		5,234,061	4,548,413	3,519,520	15,380,045		

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E Ward Creek								
E 01 Lands and Damages								
E 0100 Lands and Damages								
E 010000 Lands and Damages								
E 01000000 Lands and Damages								
Lands and Damages			0	0	0	122,540	122,540	
Lands and Damages			0	0	0	122,540	122,540	
Lands and Damages			0	0	0	122,540	122,540	
Lands and Damages			0	0	0	122,540	122,540	
E 06 Fish & Wildlife Facilities								
E 0603 Wildlife Facilities & Sanctuary								
E 060371 Fences								
E 06037102 Sitework								
E 06037102 01 Fencing - barbed wire	1838.00	LF	3,640	662	3,216	496	8,014	4.36
Sitework			3,640	662	3,216	496	8,014	
Fences			3,640	662	3,216	496	8,014	
E 060373 Habitat and Feeding Facilities								
E 06037302 Sitework								
E 06037302 01 Planting Trees	32.00	AC	1,347	245	1,555	693	3,840	120.00
Sitework			1,347	245	1,555	693	3,840	
Habitat and Feeding Facilit			1,347	245	1,555	693	3,840	
Wildlife Facilities & Sanct			4,987	906	4,771	1,189	11,854	
Fish & Wildlife Facilities			4,987	906	4,771	1,189	11,854	
E 09 Channels and Canals								

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 61

		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 0901 Channels								
E 090101 Mob & Demob								
E 09010101 Mob & Demob								
E 09010101 01	Mob & Demob		44,194	24,255	0	51,551	120,000	
	Mob & Demob		44,194	24,255	0	51,551	120,000	
	Mob & Demob		44,194	24,255	0	51,551	120,000	
E 090115 Mechanical Dredging								
E 09011502 Sitework								
E 09011502 01	Clearing for Channel Dredgi	20.00 AC	48,276	43,586	0	2,538	94,400	4720.00
E 09011502 02	Excavation	143000.00 CY	328,373	362,083	0	81,745	772,200	5.40
E 09011502 03	Clearing and Snagging	13.00 MI	94,138	94,623	0	8,839	197,600	15200.00
	Sitework		470,786	500,292	0	93,122	1,064,200	
	Mechanical Dredging		470,786	500,292	0	93,122	1,064,200	
E 090130 Bank Stabilization								
E 09013002 Sitework								
E 09013002 01	sand (8" thick)	13200.00 CY	37,808	43,407	0	29,665	110,880	8.40
E 09013002 02	Filter Drain Fabric	59300.00 SY	25,092	11,151	317,018	2,539	355,800	6.00
E 09013002 03	Fuseplug Dams		6,202	8,861	4,320	12,617	32,000	
	Sitework		69,102	63,419	321,338	44,821	498,680	
E 09013003 Concrete								
E 09013003 01	Cutoff wall	400.00 CY	0	0	0	48,000	48,000	120.00
E 09013003 02	Channel Wall Pavement (4")	8800.00 CY	0	0	0	915,200	915,200	104.00
E 09013003 03	Channel Wall Pavement (6")	6600.00 CY	0	0	0	792,000	792,000	120.00
E 09013003 04	Channel Wall Pavement (8")	4500.00 CY	0	0	0	540,000	540,000	120.00
E 09013003 05	drain ditch	2200.00 CY	0	0	0	228,800	228,800	104.00
	Concrete		0	0	0	2,524,000	2,524,000	
	Bank Stabilization		69,102	63,419	321,338	2,568,821	3,022,680	

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 62

		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 090199 Associated General Items								
E 09019902 Sitework (Construction Access)								
E 09019902 01	excavation	6500.00 CY	16,328	17,586	0	3,785	37,700	5.80
E 09019902 02	Filter Fabric	19400.00 SY	8,226	3,656	36,666	5,772	54,320	2.80
E 09019902 03	Crushed stone	9000.00 TON	18,940	21,532	33,345	98,983	172,800	19.20
E 09019902 04	Obstruction Removal	5600.00 LF	19,591	19,610	0	5,600	44,800	8.00
Sitework (Construction Acce			63,084	62,385	70,011	114,140	309,620	
E 09019905 Metals								
E 09019905 01	Fence (chain link)	11200.00 LF	11,202	1,371	60,468	879	73,920	6.60
Metals			11,202	1,371	60,468	879	73,920	
E 09019906 Aesthetic Plantings								
E 09019906 01	Aesthetic Tree Planting	650.00 EA	2,398	427	4,914	61	7,800	12.00
E 09019906 02	Aesthetic Shrub Planting	1100.00 EA	4,058	722	4,752	148	9,680	8.80
Aesthetic Plantings			6,456	1,148	9,666	209	17,480	
Associated General Items			80,743	64,904	140,145	115,228	401,020	
Channels			664,825	652,870	461,483	2,828,723	4,607,900	
Channels and Canals			664,825	652,870	461,483	2,828,723	4,607,900	
E 29 Project Cooperation Agreements								
E 2900 Project Cooperation Agreements								
E 290000 Project Cooperation Agreements								
E 29000000 Project Cooperation Agreements								
Project Cooperation Agreeme			0	0	0	2,400	2,400	
Project Cooperation Agreeme			0	0	0	2,400	2,400	
Project Cooperation Agreeme			0	0	0	2,400	2,400	
Project Cooperation Agreeme			0	0	0	2,400	2,400	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** PROJECT DIRECT SUMMARY - LEVEL 6 **

TIME 10:16:01

SUMMARY PAGE 63

	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 30 Engineering and Design								
E 3000 Engineering and Design								
E 300000 Engineering and Design								
E 30000000 Engineering and Design								
Engineering and Design	0		1,000,000	0	0	303,000	1,303,000	
Engineering and Design	0		1,000,000	0	0	303,000	1,303,000	
Engineering and Design	0		1,000,000	0	0	303,000	1,303,000	
Engineering and Design	0		1,000,000	0	0	303,000	1,303,000	
E 31 Construction Management								
E 3100 Construction Management								
E 310000 Construction Management								
E 31000000 Construction Management								
Construction Management	0		0	0	0	467,000	467,000	
Construction Management	0		0	0	0	467,000	467,000	
Construction Management	0		0	0	0	467,000	467,000	
Construction Management	0		0	0	0	467,000	467,000	
Ward Creek	669,812		1,653,776	466,254	3,724,852	6,514,694		
East Baton Rouge Psh Feas. Distribution	1.00	EA	7,960,647	19,832,503	12,009,663	35,053,440	74,856,253	74856253
TOTAL INCL INDIRECTS							88,633,948	
Contingency							20,466,052	
TOTAL INCL OWNER COSTS							109,100,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 1

A CT. Lands and Damages		QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A. Bayou Fountain												
A 01. Lands and Damages												
USR	Lands and Damage						0.00	1000000.00	0.00	19000.00	1019000.00	
		1.00	LS			0.00	0	1,000,000	0	19,000	1,019,000	1019000
	Lands and Damage						0	1,000,000	0	19,000	1,019,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 5

A 02. Relocations		QUANTY UOM CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 02. Relocations									
USR	Relocations			0.00	0.00	0.00	3000.00	3000.00	
		1.00 LS	0.00	0	0	0	3,000	3,000	3000.00
	Relocations			0	0	0	3,000	3,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 3

A. Bayou Fountain

A 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
---------------------------	--------	-----	---------	--------	-------	----------	----------	----------	------------	-----------

A 06. Fish & Wildlife Facilities

A 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

The fence will consist of poles spaced appropriately with 4 strands of barb-wire.

Three Brec sites have been selected with one Joor site also.

The quantities shown for each watershed represent a percentage of the total number of sites.

1st site 1378 lf

USR PM Fencing	1378.00 LF	TRACTOR1	17.01	1.98	0.36	0.00	0.00	2.34	
				2,727	496	0	0	3,223	2.34
USR PM Fence post	1378.00 LF		0.00	0.00	0.00	1.62	0.00	1.62	
				0	0	2,232	0	2,232	1.62
USR PM Barbed wire - 4	5512.00 LF		0.00	0.00	0.00	0.03	0.00	0.03	
				0	0	179	0	179	0.03
USR PM safety & misc	1.00 LS		0.00	0.00	0.00	0.00	374.00	374.00	
				0	0	0	374	374	374.00
Fencing - barbed 1378.00 LF				2,727	496	2,411	374	6,008	4.36

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 06037302 01. Planting Trees										
This item will include cost to do the following work:										
Planting the selected mitigation site.										
Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.										
			1st site	24 acre						
USR PM planting trees	24.00	AC	TRACTOR1	0.80	42.09 1,010	7.65 184	0.00 0	0.00 0	49.74 1,194	49.74
USR PM seedlings (300	7200.00	EA		0.00	0.00 0	0.00 0	0.16 1,166	0.00 0	0.16 1,166	0.16
USR PM safety & misc	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	159.86 160	159.86 160	15
USR PM Land preparation	24.00	AC		0.00	0.00 0	0.00 0	0.00 0	15.00 360	15.00 360	15.00
Planting Trees	24.00	AC			1,010	184	1,166	520	2,880	120.00
Fish & Wildlife					3,738	679	3,577	894	8,888	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

FAILED ESTIMATE

DETAIL PAGE 5

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09. Channels and Canals										
A 09010101 01. Mob & Demob										
Allow 1 day for mob and 1 day for demob. There is only one contract.										
USR PM DOZER D-6 W/BLAD					0.00	13.85	0.00	0.00	13.85	
	60.00	HR	DOZB	1.00	0	831	0	0	831	13.85
USR PM AIR COMPRESSOR					0.00	2.92	0.00	0.00	2.92	
	20.00	HR	AIRF	1.00	0	58	0	0	58	2.92
USR PM BACKHOE CAT 225B					0.00	20.95	0.00	0.00	20.95	
	20.00	HR	BKHB	1.00	0	419	0	0	419	20.95
USR PM BACKHOE CAT 235					0.00	39.52	0.00	0.00	39.52	
	20.00	HR	BKHC	1.00	0	790	0	0	790	39.52
USR PM chipping machine					0.00	15.00	0.00	0.00	15.00	
	20.00	HR	CHIPPER	1.00	0	300	0	0	300	15.00
USR PM chainsaw, Homeli					0.00	0.17	0.00	0.00	0.17	
	40.00	HR	CHNSAW	1.00	0	7	0	0	7	0.17
USR PM CHERRY PICKER GRO					0.00	13.53	0.00	0.00	13.53	
	20.00	HR	CHYA	1.00	0	271	0	0	271	13.53
USR PM sealant hot mixe					0.00	3.50	0.00	0.00	3.50	
	20.00	HR	CMLT	1.00	0	70	0	0	70	3.50
USR PM CONCRETE PAVER 2					0.00	27.97	0.00	0.00	27.97	
	20.00	HR	CNPV	1.00	0	559	0	0	559	27.97
USR PM CRANE AMER 5299-					0.00	27.55	0.00	0.00	27.55	
	40.00	HR	CRNA	1.00	0	1,102	0	0	1,102	27.55
USR PM DOZER D-4 W/BLAD					0.00	7.56	0.00	0.00	7.56	
	20.00	HR	DOZA	1.00	0	151	0	0	151	7.56
USR PM F E LOADER CAT 9					0.00	13.73	0.00	0.00	13.73	
	20.00	HR	FELA	1.00	0	275	0	0	275	13.73
USR PM MOTOR GRADER CAT					0.00	13.17	0.00	0.00	13.17	
	20.00	HR	MOTG	1.00	0	263	0	0	263	13.17
USR PM WATER PUMP 3" HO					0.00	0.15	0.00	0.00	0.15	
	20.00	HR	PMPC	1.00	0	3	0	0	3	0.15
USR PM trencher, chain,					0.00	1.74	0.00	0.00	1.74	
	20.00	HR	T30DW002	1.00	0	35	0	0	35	1.74
USR PM FARM TRACTOR W/D					0.00	2.24	0.00	0.00	2.24	
	20.00	HR	TRAC	1.00	0	45	0	0	45	2.24

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM WATER TRUCK 2000	20.00	HR	TRKA	1.00	0.00	5.97	0.00	0.00	5.97	
					0	119	0	0	119	5.97
USR PM trailer truck, 2	420.00	HR	TRKH	1.00	0.00	28.00	0.00	0.00	28.00	
					0	11,760	0	0	11,760	28.00
USR PM Dump truck, 12 c	180.00	HR	TRKI	1.00	0.00	22.00	0.00	0.00	22.00	
					0	3,960	0	0	3,960	22.00
USR PM CARPENTER	40.00	HR	CARM	1.00	26.04	0.00	0.00	0.00	26.04	
					1,042	0	0	0	1,042	26.04
USR PM CEMENT MASON	80.00	HR	CMNM	1.00	23.26	0.00	0.00	0.00	23.26	
					1,861	0	0	0	1,861	23.26
USR PM foreman 3 \$26.5	100.00	HR	FOREMAN3	1.00	26.50	0.00	0.00	0.00	26.50	
					2,650	0	0	0	2,650	26.50
USR PM IRONWORKER	20.00	HR	IRNM	1.00	26.18	0.00	0.00	0.00	26.18	
					524	0	0	0	524	26.18
USR PM LABORER	160.00	HR	LABM	1.00	16.67	0.00	0.00	0.00	16.67	
					2,667	0	0	0	2,667	16.67
USR PM PEO-ALL EXCPT DR	340.00	HR	PEOM	1.00	25.84	0.00	0.00	0.00	25.84	
					8,785	0	0	0	8,785	25.84
USR PM TRUCK DRIVER	600.00	HR	TRKM	1.00	17.50	0.00	0.00	0.00	17.50	
					10,500	0	0	0	10,500	17.50
USR PM LABORER	80.00	HR	LABM	1.00	16.67	0.00	0.00	0.00	16.67	
					1,334	0	0	0	1,334	16.67
USR PM LABORER	40.00	HR	LABM	1.00	16.67	0.00	0.00	0.00	16.67	
					667	0	0	0	667	16.67
USR PM trailering	14.00	EA		0.00	0.00	0.00	0.00	1500.00	1500.00	
					0	0	0	21,000	21,000	1500.00
USR PM safety & misc	1.00	LS		0.00	0.00	0.00	0.00	7951.67	7951.67	
					0	0	0	7,952	7,952	7951.67
Mob & Demob					30,030	21,019	0	28,952	80,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 7

TAILED ESTIMATE

A. Bayou Fountain

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09011502 01. Clearing and Snagging

This item will include all cost to clear and snag the:

1. channel right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

Some areas will have to be cleared so that access will be allowed for the excavator.

USR PM Clearing w/ D-6,					1206.89	906.70	0.00	-0.06	2113.53	
8.00 AC CLEARING1	0.10			9,655	7,254	0	0	16,908	2113.53	
USR PM Snagging w/ 235,					6034.47	6372.00	0.00	0.00	12406.47	
8.00 MI SNAGGING1	0.02			48,276	50,976	0	0	99,252	12406.47	
USR PM safety & misc					0.00	0.00	0.00	5440.02	5440.02	
1.00 LS	0.00			0	0	0	5,440	5,440	5440.02	
Clearing and Sna	8.00 MI				57,931	58,230	0	5,440	121,600	15200.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09011502 02. Clearing for Channel Dredging

This item will include all cost to clear and grub the:

1. channel right of way
2. access right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

USR PM Clearing w/D-6,F					1373.60	921.40	0.00	0.00	2295.00	
	47.00	AC	CLEARING2	0.10	64,559	43,306	0	0	107,865	2295.00
USR PM Grubbing w/ Cat					1040.19	1257.90	0.00	0.00	2298.09	
	47.00	AC	GRUBBING1	0.10	48,889	59,121	0	0	108,010	2298.09
USR PM safety & misc					0.00	0.00	0.00	5964.96	5964.96	
	1.00	LS		0.00	0	0	0	5,965	5,965	5964.96
Clearing for Cha	47.00	AC			113,448	102,427	0	5,965	221,840	4720.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 9

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09011502 03. Excavation

The material will be hauled to Miss. River batture areas no more than 2 miles from the intersection of Gardere Ln and River Road. A dozer will be used full time at the excavation site.

Center of gravity for hauling purposes is 2 miles north of Gardere Ln.

USR PM safety & misc	1.00	LS		0.00	0	0	0	12738.37	12738.37	12738.37
USR PM all other operat	1.00	LS		0.00	0	8,615	0	0	8,615	8615.00
USR PM small tools	1.00	LS		0.00	0	10,644	0	0	10,644	10644.00
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	65404.80	65404.80	65404.80
USR PM BACKHOE CAT 235	1155.00	HR	BKHC	1.00	0	79,441	0	0	79,441	68.78
USR PM DOZER D-6 W/BLAD	1155.00	HR	DOZB	1.00	0	36,972	0	0	36,972	32.01
USR PM trailer truck, 2	10395	HR	TRKH	1.00	0	291,060	0	0	291,060	28.00
USR PM WATER TRUCK 2000	577.50	HR	TRKA	1.00	0	9,252	0	0	9,252	16.02
USR PM MOTOR GRADER CAT	577.50	HR	MOTG	1.00	0	14,027	0	0	14,027	24.29
USR PM OILER	1155.00	HR	OILM	1.00	19,060	0	0	0	19,060	16.50
USR PM TRUCK DRIVER	10395	HR	TRKM	1.00	181,913	0	0	0	181,913	17.50
USR PM PEO-backhoe	1155.00	HR	PEOM	1.00	29,845	0	0	0	29,845	25.84
USR PM PEO-dozer	1155.00	HR	PEOM	1.00	29,845	0	0	0	29,845	25.84
USR PM PEO-motor grader	577.50	HR	PEOM	1.00	14,922	0	0	0	14,922	25.84
USR PM TRUCK DRIVER - w	577.50	HR	TRKM	1.00	10,106	0	0	0	10,106	17.50

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	2310.00	HR	LABM	1.00	38,508	0	0	0	38,508	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	1155.00	HR	FOREMAN3	1.00	30,608	0	0	0	30,608	26.50
Excavation	283000	CY			354,806	450,010	0	78,143	882,960	3.12

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 11

A 09. Channels and Canals		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013002 01. Filter Drain Fabric											
This item will include cost to do the following work:											
Once the section is at grade, the liner will be laid out. A cherry picker will assist several laborers. The liner will be placed below the area which will be covered by 6" and 8" concrete.											
USR PM cherry picker, p						0.42	0.19	0.00	0.00	0.61	
	6460.00 SY	CHYPK1			140.00	2,731	1,214	0	0	3,944	0.61
USR PM drainage composi						0.00	0.00	5.35	0.00	5.35	
	6460.00 SY				0.00	0	0	34,535	0	34,535	5.35
USR PM safety & misc						0.00	0.00	0.00	280.60	280.60	
	1.00 LS				0.00	0	0	0	281	281	280.60
Filter Drain Fab 6460.00 SY						2,731	1,214	34,535	281	38,760	6.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals									
QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013002 02. sand (8" thick)									
This item will include all cost to place material such that the design template for the concrete slope pavement will be filled. A backhoe will load the material into the haul trucks. The trucks will dump material and a dozer will spread and shape the material. The sand blanket will be placed under the 6" concrete.									
ASSUMPTIONS:									
1. Sand is available for borrow in the vicinity of Gardere Rd. and the Mississippi River. It is assumed to be pumped from the river.									
USR PM safety & misc	1.00 LS		0.00	0.00	0.00	0.00	48.81	48.81	
			0.00	0	0	0	49	49	48.81
USR PM all other operat	1.00 LS		0.00	0.00	6.00	0.00	0.00	6.00	
			0.00	0	6	0	0	6	6.00
USR PM small tools	1.00 LS		0.00	0.00	10.00	0.00	0.00	10.00	
			0.00	0	10	0	0	10	10.00
USR PM sand material	160.00 CY		0.00	0.00	0.00	0.00	1.25	1.25	
			0.00	0	0	0	200	200	1.25
USR PM haul roads (10%)	1.00 LS		0.00	0.00	0.00	0.00	71.00	71.00	
			0.00	0	0	0	71	71	71.00
USR PM BACKHOE CAT 225B	1.00 HR BKHB		1.00	0.00	36.92	0.00	0.00	36.92	
			1.00	0	37	0	0	37	36.92
USR PM DOZER D-6 W/BLAD	1.50 HR DOZB		1.00	0.00	32.01	0.00	0.00	32.01	
			1.00	0	48	0	0	48	32.01
USR PM DUMP TRUCK 12 C	9.00 HR TRKE		1.00	0.00	22.11	0.00	0.00	22.11	
			1.00	0	199	0	0	199	22.11
USR PM WATER TRUCK 2000	0.50 HR TRKA		1.00	0.00	16.02	0.00	0.00	16.02	
			1.00	0	8	0	0	8	16.02
USR PM MOTOR GRADER CAT	0.50 HR MOTG		1.00	0.00	24.29	0.00	0.00	24.29	
			1.00	0	12	0	0	12	24.29
USR PM OILER	1.00 HR OILM		1.00	16.50	0.00	0.00	0.00	16.50	
			1.00	17	0	0	0	17	16.50
USR PM TRUCK DRIVER	9.00 HR TRKM		1.00	17.50	0.00	0.00	0.00	17.50	
			1.00	158	0	0	0	158	17.50
USR PM PEO-backhoe	1.00 HR PEOM		1.00	25.84	0.00	0.00	0.00	25.84	
			1.00	26	0	0	0	26	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 13

A 09. Channels and Canals									
QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer									
1.50	HR	PEOM	1.00	25.84 39	0.00 0	0.00 0	0.00 0	25.84 39	25.84
USR PM PEO-motor grader									
0.50	HR	PEOM	1.00	25.84 13	0.00 0	0.00 0	0.00 0	25.84 13	25.84
USR PM TRUCK DRIVER - w									
0.50	HR	TRKM	1.00	17.50 9	0.00 0	0.00 0	0.00 0	17.50 9	17.50
USR PM LABORER									
1.00	HR	LABM	1.00	16.67 17	0.00 0	0.00 0	0.00 0	16.67 17	16.67
USR PM flagmen									
1.00	HR	LABM	1.00	16.67 17	0.00 0	0.00 0	0.00 0	16.67 17	16.67
USR PM foreman 3 \$26.5									
1.00	HR	FOREMAN3	1.00	26.50 27	0.00 0	0.00 0	0.00 0	26.50 27	26.50
sand (8" thick) 160.00 CY				320	320	0	320	960	6.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013002 03. riprap 16" - dry placement

The geotextile mat will be laid out once the channel is cut to grade. Channel excavation is expected to begin at the downstream end and continue upstream. The fabric will be anchored by stone on the bottom of the channel. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the areas as dry as possible. This item will include cost to furnish and place the stone only. The rock will be barge delivered in the vicinity of the Mississippi River and Gardere Rd. A dragline will offload the rock into awaiting trucks. The trucks will haul the material to the jobsite where a dragline will put it in place.

USR PM safety & misc	1.00	LS		0.00	0	0	0	2,600	2,600	2600.36
USR PM all other operat	1.00	LS		0.00	0	43	0	0	43	43.00
USR PM small tools	1.00	LS		0.00	0	65	0	0	65	65.00
USR PM stone	890.00	TON		0.00	0	0	3,124	0	3,124	3.51
USR PM stone - towing	890.00	TON		0.00	0	0	0	6,230	6,230	7.00
USR PM CRANE AMER 5299-	20.00	HR	CRNA	1.00	0	720	0	0	720	36.01
USR PM rock box/hopper	10.00	HR	BOX1	1.00	0	40	0	0	40	4.00
USR PM trailer truck, 2	50.00	HR	TRKH	1.00	0	1,400	0	0	1,400	28.00
USR PM OILER	20.00	HR	OILM	1.00	330	0	0	0	330	16.50
USR PM TRUCK DRIVER	50.00	HR	TRKM	1.00	875	0	0	0	875	17.50
USR PM PEO	20.00	HR	PEOM	1.00	517	0	0	0	517	25.84
USR PM LABORER	10.00	HR	LABM	1.00	167	0	0	0	167	16.67
USR PM foreman 3 \$26.5	10.00	HR	FOREMAN3	1.00	265	0	0	0	265	26.50

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 15

TAILED ESTIMATE

A. Bayou Fountain

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
riprap 16" - dry	890.00	TON			2,154	2,268	3,124	8,830	16,376	18.40

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013003 01. 1 FT U-frame Base Slab

This item is for all equipment, labor, and materials to construct concrete base slab for the concrete u-frame protection around the sewer line.

Reference: typical NOD T-wall base slab.

USR PM u-frame base sla						0.00	0.00	0.00	144.00	144.00	
	67.00	CY			0.00	0	0	0	9,648	9,648	144.00
1 FT U-frame Bas	67.00	CY				0	0	0	9,648	9,648	144.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 17

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013003 02. 1 FT U-frame wall

This item is for all labor, equipment, and materials required to pour 1' concrete walls for the concrete u-frame protection around the sewer line.

Reference: typical NOD concrete I-walls

USR PM 1' u-frame concr					0.00	0.00	0.00	240.00	240.00	
	100.00	CY		0.00	0	0	0	24,000	24,000	240.00
1 FT U-frame wal	100.00	CY			0	0	0	24,000	24,000	240.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013003 03. Channel Wall Pavement (4")

This item is for all equipment, labor, and materials required to place concrete channel wall pavement.

A motor grader will prepare the levee surface (fine grade) prior to concrete placement. A tractor and water tank will be used to wet the soil surface before the concrete is placed. A dozer will assist in positioning the concrete chute for the lower squares and will also backfill after the concrete has cured.

It is assumed that a slip-form paver will be used, therefore minimal forming will be required.

A sandblaster w/ a compressor will be used to clean all joints. A joint sealant machine will be used to mix/heat the sealant and place it into the dummy and expansion joints.

There will be a pump on hand to pump any water that may accumulate.

ASSUMPTION: Slope is either excavated to a 1V on 3H or backfilled to a 1 on 3 slope.

USR PM conc slope pvmt-					0.52	0.00	0.00	0.00	0.52	
60.00 LF FORMING01	100.00		31	0	0	0	0	31	0.52	
USR PM conc slope pvmt-					0.09	0.00	0.00	0.00	0.09	
4454.90 SF IRLB1	500.00		382	0	0	0	0	382	0.09	
USR PM conc slope pvmt-					22.32	7.25	0.00	0.00	29.56	
44.55 SQ SLOPPAVE01	13.50		994	323	0	0	0	1,317	29.56	
USR PM conc slope pvmt-					0.25	0.12	0.00	0.00	0.36	
production rate is -240 #/hr or INTSLR01	240.00		79	37	0	0	0	116	0.36	
600 lf/hr										
USR PM concrete materia					0.00	0.00	44.28	0.00	44.28	
= SQ x 1.234568 cy/sq x 5%Y	0.00		0	0	2,557	0	2,557	44.28		
waste										
USR PM expan jnt filler					0.00	0.00	0.17	0.00	0.17	
1st part of 2 part redwoodF	0.00		0	0	10	0	10	0.17		
strip for expansion joint										
USR PM expan jnt filler					0.00	0.00	0.19	0.00	0.19	
55.70 LF	0.00		0	0	11	0	11	0.19		
USR PM joint sealer cmp					0.00	0.00	1.19	0.00	1.19	
329.70 LBS	0.00		0	0	392	0	392	1.19		

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 19

A 09. Channels and Canals		QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM curing compound							0.00	0.00	1.89	0.00	1.89	
applied at a cov	22.27	GAL				0.00	0	0	42	0	42	1.89
sf/gal												
USR PM reinforcing mesh							0.00	0.00	0.15	0.00	0.15	
	4677.65	SF				0.00	0	0	707	0	707	0.15
USR PM stakes, core dri							0.00	0.00	0.00	2.00	2.00	
	44.55	SQ				0.00	0	0	0	89	89	2.00
USR PM forms, nails, et							0.00	0.00	0.00	0.50	0.50	
	60.00	LF				0.00	0	0	0	30	30	0.50
USR PM safety & misc							0.00	0.00	0.00	36.10	36.10	
	1.00	LS				0.00	0	0	0	36	36	36.10
Channel Wall Pav		55.00	CY				1,486	360	3,719	155	5,720	104.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013003 04. Channel Wall Pavement (6")

This item is for all labor, equipment, and materials required to construct 6" channel wall pavement.

A motor grader will prepare the levee surface (fine grade) prior to concrete placement. A tractor and water tank will be used to wet the soil surface before the concrete is placed. A dozer will assist in positioning the concrete chute for the lower squares.

This item of work will be paved by hand labor, NOT machine.

A sandblaster w/ a compressor will be used to clean all joints. A joint sealant machine will be used to mix/heat the sealant and place it into the dummy and expansion joints.

One layer of reinforcing is required in the 6" pavement. 2 laborers and 2 ironworkers will lay out the welded-wire fabric (wvf) prior to concrete paving. It is assumed that the reinforcement will not be continuous into the adjacent slab.

Assumption: slope is either excavated to a 1V on 3H or backfilled to a 1 on 3 slope.

USR PM conc slope pvmt-					0.69	0.00	0.00	0.00	0.69	
60.00 LF FORMING01	75.00	42		0		0		0	42	0.69
USR PM conc slope pvmt-					0.17	0.00	0.00	0.00	0.17	
2321.90 SF IRLB4	500.00	398		0		0		0	398	0.17
USR PM conc slope pvmt-					63.15	6.29	0.00	0.00	69.44	
23.22 SQ SLOPPAVE03	6.50	1,466		146		0		0	1,612	69.44
USR PM conc slope pvmt-					0.25	0.12	0.00	0.00	0.36	
production rate is -240 \$/hr or INTSLR01	240.00	41		19		0		0	61	0.36
600 lf/hr										
USR PM concrete (2500 p					0.00	0.00	45.36	0.00	45.36	
= SQ x 1.234568 cy/sq x 5%Y	0.00	0		0		2,048		0	2,048	45.36
waste										
USR PM expan jnt filler					0.00	0.00	0.26	0.00	0.26	
1st part of 2 part redwoodF	0.00	0		0		19		0	19	0.26
strip for expansion joint										
USR PM expan jnt filler					0.00	0.00	0.29	0.00	0.29	
74.20 LF	0.00	0		0		22		0	22	
USR PM joint sealer cmp					0.00	0.00	1.19	0.00	1.19	
172.83 LBS	0.00	0		0		205		0	205	1.19

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 21

TAILED ESTIMATE

A. Bayou Fountain

A 09. Channels and Canals	QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM curing compound						0.00	0.00	1.89	0.00	1.89	
applied at a cov	11.61	GAL			0.00	0	0	22	0	22	1.89
sf/gal											
USR PM reinforcing mesh						0.00	0.00	0.15	0.00	0.15	
	2438.00	SF			0.00	0	0	369	0	369	0.15
USR PM stakes, core dri						0.00	0.00	0.00	3.00	3.00	
	23.22	SQ			0.00	0	0	0	70	70	3.00
USR PM forms, nails, et						0.00	0.00	0.00	0.75	0.75	
	60.00	LF			0.00	0	0	0	45	45	0.75
USR PM makeshift chute						0.00	0.00	0.00	0.00	0.00	
	1.00	LS			0.00	0	0	0	0	0	0.00
USR PM small tools (5%						0.00	98.00	0.00	0.00	98.00	
	1.00	LS			0.00	0	98	0	0	98	98.00
USR PM safety & misc						9.00	2.00	-1.08	139.88	149.80	
	1.00	LS			0.00	9	2	-1	140	150	149.80
Channel Wall Pav	43.00	CY				1,956	265	2,684	255	5,160	120.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013003 05. Channel Wall Pavement (8")										
This item is for all equipment, labor, and materials required to construct 8" channel wall pavement.										
This operation is the same as that for 6" channel wall pavement.										
USR PM conc slope pvmt-					0.69	0.00	0.00	0.00	0.69	
60.00 LF FORMING01	75.00			42	0	0	0	42	0.69	
USR PM conc slope pvmt-					0.17	0.00	0.00	0.00	0.17	
2511.00 SF IRLB4	500.00			430	0	0	0	430	0.17	
USR PM conc slope pvmt-					83.77	8.34	0.00	0.00	92.12	
25.11 SQ SLOPPAVE03	4.90			2,104	210	0	0	2,313	92.12	
USR PM conc slope pvmt-					0.25	0.12	0.00	0.00	0.36	
production rate is ~240 #/hr or INTSLR01	240.00			84	39	0	0	123	0.36	
600 lf/hr										
USR PM concrete (2500 p					0.00	0.00	45.36	0.00	45.36	
- SQ x 1.234568 cy/sq x 5%Y				0.00	0	0	2,953	0	2,953	4
waste										
USR PM expan jnt filler					0.00	0.00	0.35	0.00	0.35	
1st part of 2 part redwoodF				0.00	0	0	11	0	11	0.35
strip for expansion joint										
USR PM expan jnt filler					0.00	0.00	0.39	0.00	0.39	
32.30 LF	0.00			0	0	13	0	13	0.39	
USR PM joint sealer cmp					0.00	0.00	1.19	0.00	1.19	
348.96 LBS	0.00			0	0	415	0	415	1.19	
USR PM curing compound					0.00	0.00	1.89	0.00	1.89	
applied at a cov	12.56 GAL			0.00	0	0	24	0	24	1.89
sf/gal										
USR PM reinforcing mesh					0.00	0.00	0.15	0.00	0.15	
2636.55 SF	0.00			0	0	399	0	399	0.15	
USR PM stakes, core dri					0.00	0.00	0.00	3.00	3.00	
25.11 SQ	0.00			0	0	0	75	75	3.00	
USR PM forms, nails, et					0.00	0.00	0.00	0.75	0.75	
60.00 LF	0.00			0	0	0	45	45	0.75	
USR PM small tools (5%					0.00	132.00	0.00	0.00	132.00	
1.00 LS	0.00			0	132	0	0	132	132	
USR PM safety & misc					0.00	0.00	0.00	466.00	466.00	
1.00 LS	0.00			0	0	0	466	466	466.00	

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 23

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Channel Wall Pav	62.00	CY			2,659	381	3,814	586	7,440	120.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

DETAILED ESTIMATE

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09019905 01. Fence (chain link)

This item will include cost to do the following work:

Construct a chain link fence along the top edge of the concrete.

Three laborers will construct the fence

USR PM install chain li					1.00	0.12	0.00	0.00	1.12	
300.00 LF	LABR5	50.00	300	37	0	0	337	1.12		
USR PM 5' chain link -					0.00	0.00	1.89	0.00	1.89	
300.00 LF		0.00	0	0	567	0	567	1.89		
USR PM line post - 2 3/					0.00	0.00	13.50	0.00	13.50	
30.00 EA		0.00	0	0	405	0	405	13.50		
USR PM #6 gage tension					0.00	0.00	0.10	0.00	0.10	
300.00 LF		0.00	0	0	29	0	29	0.10		
USR PM #9 gage line pos					0.00	0.00	0.10	0.00	0.10	
150.00 EA		0.00	0	0	15	0	15	0.10		
USR PM #12 gage top rail					0.00	0.00	0.09	0.00	0.09	
300.00 EA		0.00	0	0	26	0	26	0.09		
USR PM 1 5/8 od top rail					0.00	0.00	1.19	0.00	1.19	
300.00 LF		0.00	0	0	356	0	356	1.19		
USR PM top connection					0.00	0.00	3.15	0.00	3.15	
30.00 EA		0.00	0	0	95	0	95	3.15		
USR PM safety & misc					0.00	0.00	0.00	23.54	23.54	
1.00 LS		0.00	0	0	0	24	24	23.54		
USR PM concrete (200#/p					0.00	0.00	3.24	0.00	3.24	
30.00 EA		0.00	0	0	97	0	97	3.24		
USR PM sleeve					0.00	0.00	0.99	0.00	0.99	
30.00 EA		0.00	0	0	30	0	30	0.99		
Fence (chain lin	300.00 LF		300	37	1,620	24	1,980	6.60		

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 25

A. Bayou Fountain

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09019906 01. Aesthetic Tree Planting

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees

5 gallon, 2 year crop

10 cypress - \$6 ea
 5 drake elm - \$14 ea
 5 swamp red maple - \$6 ea
 10 sweet gum - \$6 ea
 25 water oak - \$6 ea
 30 willow oak - \$6 ea
 5 crepe myrtle - \$8 ea
 10 flash pine - \$11 ea

WEIGHTED COST: \$7/tree

USR PM tree planting -				3.69	0.47	0.00	0.00	4.16	
1050.00 EA TREE01B	30.00	3,874	495	0	0	4,369	4.16		
USR PM small tools(5% o		0.00	194.00	0.00	0.00	194.00			
1.00 LS	0.00	0	194	0	0	194	194.00		
USR PM trees		0.00	0.00	7.56	0.00	7.56			
1050.00 EA	0.00	0	0	7,938	0	7,938	7.56		
USR PM safety & misc		0.00	0.00	0.00	98.90	98.90			
1.00 LS	0.00	0	0	0	99	99	98.90		
Aesthetic Tree P 1050.00 EA		3,874	689	7,938	99	12,600	12.00		

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE

A. Bayou Fountain

A 09. Channels and Canals		QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09019906 02. Aesthetic Shrub Planting											
This item is for all equipment, labor, and materials required to plant shrubs. 4 laborers will be used to plant shrubs. A flatbed truck will be used to haul shrubs to planting sites.											
USR PM shrub planting						3.69	0.47	0.00	0.00	4.16	
	1760.00	EA	TREE01B		30.00	6,493	830	0	0	7,323	4.16
USR PM small tools (5% o						0.00	325.00	0.00	0.00	325.00	
	1.00	LS			0.00	0	325	0	0	325	325.00
USR PM shrubs						0.00	0.00	4.32	0.00	4.32	
	1760.00	EA			0.00	0	0	7,603	0	7,603	4.32
USR PM safety & misc						0.00	0.00	0.00	236.42	236.42	
	1.00	LS			0.00	0	0	0	236	236	236.42
Aesthetic Shrub	1760.00	EA				6,493	1,155	7,603	236	15,488	8.80
Channels and Can						578,188	638,375	65,036	162,933	1,444,532	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 27

TAILED ESTIMATE

A. Bayou Fountain

A 29. Project Cooperation		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 29. Project Cooperation Agreements											
USR	Project Cooperat					0.00	0.00	0.00	4100.00	4100.00	
		1.00	LS		0.00	0	0	0	4,100	4,100	4100.00
	Project Cooperat					0	0	0	4,100	4,100	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

A 30. Engineering and Des		QUANTY	DOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL	COST	UNIT	COST
A 30. Engineering and Design														
USR	Engineering and						0.00	0.00	0.00	851000.00	851000.00			
		1.00	LS			0.00	0	0	0	851,000	851,000	851000.00		
	Engineering and						0	0	0	851,000	851,000			

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

TIME 10:16:01

TAILED ESTIMATE

DETAIL PAGE 29

A 31. Construction Manage		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 31. Construction Management											
USR	Construction Man					0.00	0.00	0.00	304000.00	304000.00	
		1.00	LS		0.00	0	0	0	304,000	304,000	304000.00
	Construction Man					0	0	0	304,000	304,000	
	Bayou Fountain					581,926	1,639,054	68,613	1,344,927	3,634,520	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

B 01. Lands and Damages	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B. Jones Creek

B 01. Lands and Damages

USR	Lands and Damage				0.00	0.00	0.00	393020.00	393020.00	
		1.00	LS	0.00	0	0	0	393,020	393,020	393020.00
	Lands and Damage				0	0	0	393,020	393,020	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 31

DETAILED ESTIMATE

B. Jones Creek

B 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 06. Fish & Wildlife Facilities

B 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

The fence will consist of poles spaced appropriately with 4 strands of barb-wire.

1st site 6432 lf

USR PM Fencing	6432.00 LF	TRACTOR1	17.02	12,728	2,313	0	0	15,041	2.34
USR PM Fence post	6432.00 LF		0.00	0	0	10,420	0	10,420	1.62
USR PM Barbed wire - 4	25728 LF		0.00	0	0	834	0	834	0.03
USR PM safety & misc	1.00 LS		0.00	0	0	0	1,749	1,749	1748.90
Fencing - barbed 6432.00 LF				12,728	2,313	11,253	1,749	28,043	4.36

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 02

B. Jones Creek

B 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 111 acre

USR PM planting trees	111.00 AC	TRACTOR1	0.80	42.16	7.66	0.00	0.00	49.83	
				4,680	851	0	0	5,531	49.83
USR PM seedlings (300	33300 EA		0.00	0.00	0.00	0.16	0.00	0.16	
				0	0	5,395	0	5,395	0.16
USR PM safety & misc	1.00 LS		0.00	0.00	0.00	0.00	729.68	729.68	
				0	0	0	730	730	72
USR PM Land preparation	111.00 AC		0.00	0.00	0.00	0.00	15.00	15.00	
				0	0	0	1,665	1,665	15.00
Planting Trees	111.00 AC			4,680	851	5,395	2,395	13,320	120.00
Fish & Wildlife				17,408	3,164	16,648	4,144	41,363	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 33

B. Jones Creek

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09. Channels and Canals

B 09010101 01. Mob & Demob

This item will include cost to do the following work:
mob and demob all equipment

1 operation

mob 1 day

demob 1 day

subtotal 2 days

of contracts 2

2 operation x 2 contracts = 4 operations

4 operations x 2 wd / operation = 8 days + 2 days (additional) = 10 wd

USR PM AIR COMPRESSOR	100.00	HR	AIRF	1.00	0.00	2.92	0.00	0.00	2.92	
					0	292	0	0	292	2.92
USR PM BACKHOE CAT 225B	200.00	HR	BKHB	1.00	0.00	20.95	0.00	0.00	20.95	
					0	4,190	0	0	4,190	20.95
USR PM BACKHOE CAT 235	100.00	HR	BKHC	1.00	0.00	39.52	0.00	0.00	39.52	
					0	3,952	0	0	3,952	39.52
USR PM chipping machine	100.00	HR	CHIPPER	1.00	0.00	15.00	0.00	0.00	15.00	
					0	1,500	0	0	1,500	15.00
USR PM chainsaw, Homeli	200.00	HR	CHNSAW	1.00	0.00	0.17	0.00	0.00	0.17	
					0	34	0	0	34	0.17
USR PM CHERRYPICKER GRO	100.00	HR	CHYA	1.00	0.00	13.53	0.00	0.00	13.53	
					0	1,353	0	0	1,353	13.53
USR PM sealant hot mixe	100.00	HR	CMLT	1.00	0.00	3.50	0.00	0.00	3.50	
					0	350	0	0	350	3.50
USR PM CONCRETE PAVER 2	100.00	HR	CNPV	1.00	0.00	27.97	0.00	0.00	27.97	
					0	2,797	0	0	2,797	27.97
USR PM DOZER D-4 W/BLAD	100.00	HR	DOZA	1.00	0.00	7.56	0.00	0.00	7.56	
					0	756	0	0	756	7.56
USR PM DOZER D-6 W/BLAD	500.00	HR	DOZB	1.00	0.00	13.85	0.00	0.00	13.85	
					0	6,925	0	0	6,925	13.85
USR PM F E LOADER CAT 9	100.00	HR	FELA	1.00	0.00	13.73	0.00	0.00	13.73	
					0	1,373	0	0	1,373	13.73
USR PM MOTOR GRADER CAT	100.00	HR	MOTG	1.00	0.00	13.17	0.00	0.00	13.17	
					0	1,317	0	0	1,317	13.17

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM WATER PUMP 3" HO					0.00	0.15	0.00	0.00	0.15	
	100.00	HR	PMPC	1.00	0	15	0	0	15	0.15
USR PM trencher, chain,					0.00	1.74	0.00	0.00	1.74	
	100.00	HR	T30DW002	1.00	0	174	0	0	174	1.74
USR PM FARM TRACTOR JD					0.00	2.24	0.00	0.00	2.24	
	100.00	HR	TRCB	1.00	0	224	0	0	224	2.24
USR PM WATER TRUCK 2000					0.00	5.97	0.00	0.00	5.97	
	100.00	HR	TRKA	1.00	0	597	0	0	597	5.97
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	3100.00	HR	TRKI	1.00	0	68,200	0	0	68,200	22.00
USR PM CARPENTER					26.04	0.00	0.00	0.00	26.04	
	200.00	HR	CARM	1.00	5,208	0	0	0	5,208	26.04
USR PM CEMENT MASON					23.26	0.00	0.00	0.00	23.26	
	400.00	HR	CMNM	1.00	9,305	0	0	0	9,305	23.26
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	500.00	HR	FOREMAN3	1.00	13,250	0	0	0	13,250	26.50
USR PM IRONWORKER					26.18	0.00	0.00	0.00	26.18	
	100.00	HR	IRNM	1.00	2,618	0	0	0	2,618	26.18
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	400.00	HR	LABM	1.00	6,668	0	0	0	6,668	16.67
USR PM PEO-ALL EXCPT DR					25.84	0.00	0.00	0.00	25.84	
	1800.00	HR	PEOM	1.00	46,511	0	0	0	46,511	25.84
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	3100.00	HR	TRKM	1.00	54,250	0	0	0	54,250	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	1000.00	HR	LABM	1.00	16,670	0	0	0	16,670	16.67
USR PM LABORER (reinf)					16.67	0.00	0.00	0.00	16.67	
	200.00	HR	LABM	1.00	3,334	0	0	0	3,334	16.67
USR PM trailering					0.00	0.00	0.00	1500.00	1500.00	
	72.00	EA		0.00	0	0	0	108,000	108,000	1500.00
USR PM safety & misc					-2.00	0.00	0.00	16137.32	16135.32	
	1.00	LS		0.00	-2	0	0	16,137	16,135	16135.32
Mob & Demob					157,814	94,049	0	124,137	376,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 35

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09011502 01. Clearing for Channel Dredging

This item will include all cost to clear and grub the:

1. channel right of way
2. access right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

USR PM Clearing w/D-6,F					686.80	460.70	0.00	0.00	1147.50	
	272.00	AC	CLEARING2	0.20	186,809	125,310	0	0	312,119	1147.50
USR PM Grubbing w/ Cat					520.10	628.95	0.00	0.00	1149.05	
	272.00	AC	GRUBBING1	0.20	141,466	171,074	0	0	312,540	1149.05
USR PM safety & misc					0.00	0.00	0.00	49900.50	49900.50	
	1.00	LS		0.00	0	0	0	49,901	49,901	49900.50
Clearing for Cha	272.00	AC			328,275	296,385	0	49,901	674,560	2480.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 06

B. Jones Creek

B 09. Channels and Canals	QUANTITY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09011502 02. Degrading, hauling, shaping 16mi

This item consists of three operations:

1) a backhoe will excavate material and load into waiting trucks. The material will be hauled to locations within 2 miles. A dozer will be used at the excavation site and the disposal site.

Quantity: 105,000 cy @ 100 cy/hr - 2 mile/ 1 way

2) a backhoe will excavate material and load into awaiting trucks. The material will be hauled to Devil's swamp. A dozer will be used full time at the excavation site and at the disposal site.

Quantity: 57,000 cy @ 210 cy/hr - 22 mile/ 1 way

3) a dozer and a motor grader will shape areas where excavation or fill is not required. The reach is given as 6 miles.

Quantity: 31,680 LF @ 300 LF/wd

ASSUMPTION:

A narrow strip of road access is available on each side of all the creeks or bayous. The strip either exists already or is built as part of the backfill item. The backfill item restores the creek or bayou to the design template which has enough width at the top of bank to allow passage of trucks.

Work will progress in phases since continuous access is not available.

Phase 1: excavate/fill on one side of the channel.

Phase 2: once excavation/fill has progressed enough, then that work will be halted and the concrete paving operation will advance up to the area where excavation/fill was halted. This type of operation is necessary since ROW is limited to 20 ft making it impractical for two-way passage of haul and concrete trucks.

USR PM BACKHOE CAT 225B						0.00	36.92	0.00	0.00	36.92	
1050.00 HR	BKHB	1.00	0	38,766	0	0	0	38,766	36.92		
USR PM DOZER D-6 W/BLAD						0.00	32.01	0.00	0.00	32.01	
2100.00 HR	DOZB	1.00	0	67,221	0	0	0	67,221	32.01		
USR PM Dump truck, 12 c						0.00	22.00	0.00	0.00	22.00	
6300.00 HR	TRKI	1.00	0	138,600	0	0	0	138,600	22.00		
USR PM WATER TRUCK 2000						0.00	16.02	0.00	0.00	16.02	
525.00 HR	TRKA	1.00	0	8,411	0	0	0	8,411	16.02		
USR PM MOTOR GRADER CAT						0.00	24.29	0.00	0.00	24.29	
525.00 HR	MOTG	1.00	0	12,752	0	0	0	12,752	24.29		
USR PM OILER						16.50	0.00	0.00	0.00	16.50	
1050.00 HR	OILM	1.00	17,327	0	0	0	0	17,327	16.50		

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 37

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	6300.00	HR	TRKM	1.00	110,250	0	0	0	110,250	17.50
USR PM PEO-backhoe					25.84	0.00	0.00	0.00	25.84	
	1050.00	HR	PEOM	1.00	27,132	0	0	0	27,132	25.84
USR PM PEO-dozer					25.84	0.00	0.00	0.00	25.84	
	2100.00	HR	PEOM	1.00	54,263	0	0	0	54,263	25.84
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	525.00	HR	PEOM	1.00	13,566	0	0	0	13,566	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	525.00	HR	TRKM	1.00	9,188	0	0	0	9,188	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	1050.00	HR	LABM	1.00	17,504	0	0	0	17,504	16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67	
	1050.00	HR	LABM	1.00	17,504	0	0	0	17,504	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	1050.00	HR	FOREMAN3	1.00	27,825	0	0	0	27,825	26.50
USR PM haul roads (~10%)					0.00	0.00	0.00	48593.00	48593.00	
	1.00	LS		0.00	0	0	0	48,593	48,593	48593.00
USR PM small tools					0.00	8837.00	0.00	0.00	8837.00	
	1.00	LS		0.00	0	8,837	0	0	8,837	8837.00
USR PM all other operat					0.00	5315.00	0.00	0.00	5315.00	
	1.00	LS		0.00	0	5,315	0	0	5,315	5315.00
USR PM safety & misc					0.00	0.00	0.00	32926.60	32926.60	
	1.00	LS		0.00	0	0	0	32,927	32,927	32926.60
USR PM BACKHOE CAT 225B					0.00	36.92	0.00	0.00	36.92	
	271.00	HR	BKHB	1.00	0	10,005	0	0	10,005	36.92
USR PM DOZER D-6 W/BLAD					0.00	32.01	0.00	0.00	32.01	
	542.00	HR	DOZB	1.00	0	17,349	0	0	17,349	32.01
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	7859.00	HR	TRKI	1.00	0	172,898	0	0	172,898	22.00
USR PM WATER TRUCK 2000					0.00	16.02	0.00	0.00	16.02	
	136.00	HR	TRKA	1.00	0	2,179	0	0	2,179	16.02
USR PM MOTOR GRADER CAT					0.00	24.29	0.00	0.00	24.29	
	136.00	HR	MOTG	1.00	0	3,303	0	0	3,303	24.29

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 38

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM OILER	271.00	HR	OILM	1.00	16.50 4,472	0.00 0	0.00 0	0.00 0	16.50 4,472	16.50
USR PM TRUCK DRIVER	7859.00	HR	TRKM	1.00	17.50 137,533	0.00 0	0.00 0	0.00 0	17.50 137,533	17.50
USR PM PEO-backhoe	271.00	HR	PEOM	1.00	25.84 7,003	0.00 0	0.00 0	0.00 0	25.84 7,003	25.84
USR PM PEO-dozer	542.00	HR	PEOM	1.00	25.84 14,005	0.00 0	0.00 0	0.00 0	25.84 14,005	25.84
USR PM PEO-motor grader	136.00	HR	PEOM	1.00	25.84 3,514	0.00 0	0.00 0	0.00 0	25.84 3,514	25.84
USR PM TRUCK DRIVER - w	136.00	HR	TRKM	1.00	17.50 2,380	0.00 0	0.00 0	0.00 0	17.50 2,380	17.50
USR PM LABORER	271.00	HR	LABM	1.00	16.67 4,518	0.00 0	0.00 0	0.00 0	16.67 4,518	16.67
USR PM flagmen	271.00	HR	LABM	1.00	16.67 4,518	0.00 0	0.00 0	0.00 0	16.67 4,518	16.67
USR PM foreman 3 \$26.5	271.00	HR	FOREMAN3	1.00	26.50 7,182	0.00 0	0.00 0	0.00 0	26.50 7,182	26.50
USR PM haul roads (10%)	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	34133.00 34,133	34133.00 34,133	34133.00
USR PM small tools	1.00	LS		0.00	0.00 0	5553.00 5,553	0.00 0	0.00 0	5553.00 5,553	5553.00
USR PM all other operat	1.00	LS		0.00	0.00 0	4114.00 4,114	0.00 0	0.00 0	4114.00 4,114	4114.00
USR PM safety & misc	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	26164.00 26,164	26164.00 26,164	26164.00
USR PM MOTOR GRADER CAT	1056.00	HR	MOTG	1.00	0.00 0	24.29 25,650	0.00 0	0.00 0	24.29 25,650	24.29
USR PM DOZER D-6 W/BLAD	1056.00	HR	DOZB	1.00	0.00 0	32.01 33,803	0.00 0	0.00 0	32.01 33,803	32.01
USR PM foreman 3 \$26.5	1056.00	HR	FOREMAN3	1.00	26.50 27,984	0.00 0	0.00 0	0.00 0	26.50 27,984	26.50
USR PM PEO dozer	1056.00	HR	PEOM	1.00	25.84 27,287	0.00 0	0.00 0	0.00 0	25.84 27,287	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 39

B. Jones Creek

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

USR PM PEO motor grader					25.84	0.00	0.00	0.00	25.84
	1056.00	HR	PEOM	1.00	27,287	0	0	0	27,287 25.84
USR PM LABORER					16.67	0.00	0.00	0.00	16.67
	2112.00	HR	LABM	1.00	35,207	0	0	0	35,207 16.67
USR PM safety & misc					-1.00	0.00	0.00	1982.00	1981.00
	1.00	LS		0.00	-1	0	0	1,982	1,981 1981.00
Degrading, haul	162000	CY			597,445	554,756	0	143,799	1,296,000 8.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

DETAILED ESTIMATE

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
B. Jones Creek

DETAIL PAGE 40

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09011502 03. Clearing and Snagging										
This item will include all cost to clear and snag the:										
1. channel right of way										
Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.										
Some areas will have to be cleared so that access will be allowed for the excavator.										
USR PM Clearing w/ D-6,					1206.89	906.70	0.00	-0.06	2113.53	
3.00 AC	CLEARING1		0.10	3,621	2,720	0	0	6,341	2113.53	
USR PM Snagging w/ 235,					6034.47	6372.00	0.00	0.00	12406.47	
3.00 MI	SNAGGING1		0.02	18,103	19,116	0	0	37,219	12406.47	
USR PM safety & misc					0.00	1.00	0.00	2039.00	2040.00	
1.00 LS			0.00	0	1	0	2,039	2,040	2040.00	
Clearing and Sna	3.00 MI				21,724	21,837	0	2,039	45,600	15200.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 41

B. Jones Creek

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09013002 01. sand (8" thick)										
This item will include all cost to place material such that the design template for the concrete slope pavement will be filled. A backhoe will load the material into the haul trucks. The trucks will dump material and a dozer will spread and shape the material. The sand blanket will be placed under the 6" concrete.										
ASSUMPTIONS:										
1. Sand is available for borrow in the vicinity of Gardere Rd. and the Mississippi River. It is assumed to be pumped from the river.										
USR PM safety & misc	1.00	LS		0.00	0	0	0	3,749	3,749	3748.50
USR PM all other operat	1.00	LS		0.00	0	6,324	0	0	6,324	6324.00
USR PM small tools	1.00	LS		0.00	0	8,461	0	0	8,461	8461.00
USR PM sand material	84000	CY		0.00	0	0	0	105,000	105,000	1.25
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	57,742	57,742	57742.00
USR PM BACKHOE CAT 225B	400.00	HR	BKHB	1.00	0	14,768	0	0	14,768	36.92
USR PM DOZER D-6 W/BLAD	600.00	HR	DOZB	1.00	0	19,206	0	0	19,206	32.01
USR PM DUMP TRUCK 12 C	12400	HR	TRKE	1.00	0	274,164	0	0	274,164	22.11
USR PM WATER TRUCK 2000	200.00	HR	TRKA	1.00	0	3,204	0	0	3,204	16.02
USR PM MOTOR GRADER CAT	200.00	HR	MOTG	1.00	0	4,858	0	0	4,858	24.29
USR PM OILER	400.00	HR	OILM	1.00	6,601	0	0	0	6,601	16.50
USR PM TRUCK DRIVER	12400	HR	TRKM	1.00	217,000	0	0	0	217,000	17.50
USR PM PEO-backhoe	400.00	HR	PEOM	1.00	10,336	0	0	0	10,336	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 42

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer	600.00	HR	PEOM	1.00	25.84 15,504	0.00 0	0.00 0	0.00 0	25.84 15,504	25.84
USR PM PEO-motor grader	200.00	HR	PEOM	1.00	25.84 5,168	0.00 0	0.00 0	0.00 0	25.84 5,168	25.84
USR PM TRUCK DRIVER - w	200.00	HR	TRKM	1.00	17.50 3,500	0.00 0	0.00 0	0.00 0	17.50 3,500	17.50
USR PM LABORER	400.00	HR	LABM	1.00	16.67 6,668	0.00 0	0.00 0	0.00 0	16.67 6,668	16.67
USR PM flagmen	400.00	HR	LABM	1.00	16.67 6,668	0.00 0	0.00 0	0.00 0	16.67 6,668	16.67
USR PM foreman 3 \$26.5	400.00	HR	FOREMAN3	1.00	26.50 10,600	0.00 0	0.00 0	0.00 0	26.50 10,600	26.50
sand (8" thick)	84000	CY			282,045	330,985	0	166,491	779,520	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 43

B. Jones Creek

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09013002 02. Filter Drain Fabric										
This item will include cost to do the following work:										
Once the section is at grade, the liner will be laid out. A cherry picker will assist several laborers. The liner will be placed below the area which will be covered by 6" and 8" concrete.										
USR PM cherry picker, p					0.42	0.19	0.00	0.00	0.61	
418700 SY	CHYPK1		140.00	176,991	78,656	0	0	255,647	0.61	
USR PM drainage composi					0.00	0.00	5.35	0.00	5.35	
418700 SY			0.00	0	0	2,238,370	0	2,238,370	5.35	
USR PM safety & misc					0.00	0.00	0.00	18183.00	18183.00	
1.00 LS			0.00	0	0	0	18,183	18,183	18183.00	
Filter Drain Fab	418700 SY				176,991	78,656	2,238,370	18,183	2,512,200	6.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 44

B. Jones Creek

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013002 03. Fuseplug Dams

This item will include cost to do the following work:

Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.

total length of all work: 89,400 LF

Quantity: 89,400 lf / 2,000 lf/dam = 44.7 dams

44.7 dams * 2(replacement factor) = 90 dams

Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss

=> approx. 40 cy/dam; 90 dams * 40 cy/dam = 3600 cy

Estimated time: 1 dam per day

USR PM construct dams				6.46	9.23	0.00	0.00	15.69	
3600.00 CY BKH002	4.00	23,256	33,228	0	0	56,484	15.69		
USR PM culvert				0.00	0.00	1080.00	0.00	1080.00	
6.00 EA	0.00	0	0	6,480	0	6,480	1080.00		
USR PM breaching dams				0.00	0.00	0.00	400.00	400.00	
40.00 EA	0.00	0	0	0	16,000	16,000	400.00		
USR PM safety & misc				0.00	0.00	0.00	7436.27	7436.27	
1.00 LS	0.00	0	0	0	7,436	7,436	7436.27		
Fuseplug Dams		23,256	33,228	6,480	23,436	86,400			

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 45

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09013003 01. Cutoff Wall										
This item is for all labor, equipment, and materials required to construct the cut-off walls for the channel wall pavement.										
The cut-off walls will be placed in conjunction with the top squares of channel wall pavement.										
USR PM conc slope pvmt-					0.26	0.05	0.00	0.00	0.31	
168960 LF	TRENCHER01	100.00		43,659	8,059	0	0	51,718	0.31	
USR PM conc slope pvmt-					0.69	0.00	0.00	0.00	0.69	
168960 LF	FORMING01	75.00		117,329	0	0	0	117,329	0.69	
USR PM conc slope pvmt-					23.17	7.53	0.00	0.00	30.70	
4981.37 SQ	SLOPPAVE01	13.00		115,442	37,495	0	0	152,937	30.70	
USR PM conc slope pvmt-					0.26	0.18	0.00	0.00	0.44	
42240 LF	DOZER001	100.00		10,915	7,705	0	0	18,619	0.44	
USR PM concrete materia					0.00	0.00	44.28	0.00	44.28	
- SQ x 1.234568 cy/sq x 5%Y		0.00		0	0	285,938	0	285,938	44.28	
waste										
USR PM curing compound					0.00	0.00	1.89	0.00	1.89	
applied at a cov 2490.69 GAL		0.00		0	0	4,707	0	4,707	1.89	
sf/gal										
USR PM stakes, core dri					0.00	0.00	0.00	2.00	2.00	
4981.37 SQ		0.00		0	0	0	9,963	9,963	2.00	
USR PM forms, nails, et					0.00	0.00	0.00	0.35	0.35	
168960 LF		0.00		0	0	0	59,136	59,136	0.35	
USR PM makeshift chute					0.00	0.00	0.00	1000.00	1000.00	
1.00 LS		0.00		0	0	0	1,000	1,000	1000.00	
USR PM small tools (5%					0.00	14365.00	0.00	0.00	14365.00	
1.00 LS		0.00		0	14,365	0	0	14,365	14365.00	
USR PM safety & misc					0.00	0.00	0.00	22287.00	22287.00	
1.00 LS		0.00		0	0	0	22,287	22,287	22287.00	
Cutoff Wall	6150.00 CY				287,344	67,624	290,645	92,386	738,000	120.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 02. Channel Wall Pavement (4")

This item is for all labor, equipment, and materials required to construct
4" concrete channel wall pavement.

Reference: Bayou Fountain - 4" channel pavement

USR PM 4" channel wall					0.00	0.00	0.00	104.00	104.00	
	82300	CY		0.00	0	0	0	8,559,200	8,559,200	104.00
Channel Wall Pav	82300	CY			0	0	0	8,559,200	8,559,200	104.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 47

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 03. Channel Wall Pavement (6")

This item is for all labor, equipment, and materials required to construct
6" concrete channel wall pavement.

Reference: Bayou Fountain - 6" channel wall pavement

USR PM 6" channel wall					0.00	0.00	0.00	120.00	120.00	
	61300	CY		0.00	0	0	0	7,356,000	7,356,000	120.00
Channel Wall Pav	61300	CY			0	0	0	7,356,000	7,356,000	120.00

Tue 27 Sep 1994

DETAILED ESTIMATE

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
B. Jones Creek

TIME 10:16:01

DETAIL PAGE 18

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 04. Channel Wall Pavement (8")

This item is for all labor, equipment, and materials required to construct
8" concrete channel wall pavement.

Reference: Bayou Fountain - 8" channel wall pavement

USR PM 8" channel wall					0.00	0.00	0.00	120.00	120.00	
	11000	CY		0.00	0	0	0	1,320,000	1,320,000	120.00
					<hr/>					
Channel Wall Pav	11000	CY			0	0	0	1,320,000	1,320,000	120.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 49

B 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 05. drain ditch

This item is for all labor, equipment, and materials to construct concrete drainage ditches along each side of the new paved creek channel.

The details are the same as 4" Channel wall pavement.

USR PM concrete paved d					0.00	0.00	0.00	104.00	104.00	
This item is the same as 4" channel wall pavement.	0.00				0	0	0	3,442,400	3,442,400	104.00
drain ditch	33100	CY			0	0	0	3,442,400	3,442,400	104.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 50

B. Jones Creek

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09019905 01. Fence (chain link)										
This item will include cost to do the following work:										
Construct a chain link fence along the top edge of the concrete.										
Three laborers will construct the fence										
USR PM install chain li					1.00	0.12	0.00	0.00	1.12	
171000 LF LABR5				50.00	171,036	20,930	0	0	191,967	1.12
USR PM 5' chain link -					0.00	0.00	1.89	0.00	1.89	
171000 LF				0.00	0	0	323,190	0	323,190	1.89
USR PM line post - 2 3/4					0.00	0.00	13.50	0.00	13.50	
17100 EA				0.00	0	0	230,850	0	230,850	13.50
USR PM #6 gage tension					0.00	0.00	0.10	0.00	0.10	
171000 LF				0.00	0	0	16,621	0	16,621	0.10
USR PM #9 gage line pos					0.00	0.00	0.10	0.00	0.10	
85500 EA				0.00	0	0	8,311	0	8,311	0.10
USR PM #12 gage top rail					0.00	0.00	0.09	0.00	0.09	
171000 EA				0.00	0	0	14,774	0	14,774	0.09
USR PM 1 5/8 od top rail					0.00	0.00	1.19	0.00	1.19	
171000 LF				0.00	0	0	203,148	0	203,148	1.19
USR PM top connection					0.00	0.00	3.15	0.00	3.15	
17100 EA				0.00	0	0	53,927	0	53,927	3.15
USR PM safety & misc					0.00	0.00	0.00	13418.00	13418.00	
1.00 LS				0.00	0	0	0	13,418	13,418	13418.00
USR PM concrete (200#/p					0.00	0.00	3.24	0.00	3.24	
17100 EA				0.00	0	0	55,404	0	55,404	3.24
USR PM sleeve					0.00	0.00	0.99	0.00	0.99	
17100 EA				0.00	0	0	16,991	0	16,991	0.99
Fence (chain lin	171000 LF				171,036	20,930	923,215	13,418	1,128,600	6.60

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 51

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09019906 01. Aesthetic Tree Planting										
This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.										
Note: Cost for trees based on assumptions of the following trees										
5 gallon, 2 year crop										
10 cypress - \$6 ea										
5 drake elm - \$14 ea										
5 swamp red maple - \$6 ea										
10 sweet gum - \$6 ea										
25 water oak - \$6 ea										
30 willow oak - \$6 ea										
5 crepe myrtle - \$8 ea										
10 flash pine - \$11 ea										

WEIGHTED COST: \$7/tree										
USR PM tree planting -	1800.00	EA	TREE01B	30.00	3.69 6,641	0.47 849	0.00 0	0.00 0	4.16 7,490	4.16
USR PM small tools(5% o	1.00	LS		0.00	0.00 0	332.00 332	0.00 0	0.00 0	332.00 332	332.00
USR PM trees	1800.00	EA		0.00	0.00 0	0.00 0	7.56 13,608	0.00 0	7.56 13,608	7.56
USR PM safety & misc	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	170.00 170	170.00 170	170.00
Aesthetic Tree P	1800.00	EA			6,641	1,181	13,608	170	21,600	12.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 52

B. Jones Creek

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09019906 02. Aesthetic Shrub Planting

This item is for all equipment, labor, and materials required to plant shrubs. 4 laborers will be used to plant shrubs. A flatbed truck will be used to haul shrubs to planting sites.

USR PM shrub planting	3000.00	EA	TREE01B	30.00	11,068	1,415	0	0	12,483	4.16
USR PM small tools(5% o	1.00	LS		0.00	0	553	0	0	553	553.00
USR PM shrubs	3000.00	EA		0.00	0	0	12,960	0	12,960	4.32
USR PM safety & misc	1.00	LS		0.00	0	0	0	404	404	404.00
Aesthetic Shrub	3000.00	EA			11,068	1,968	12,960	404	26,400	8.80
Channels and Can					2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 53

B. Jones Creek

B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14. Recreation Facilities

B 14002202 02. Bridge - 10' x 50'

This item will include all equipment, labor, and materials required to furnish and install steel pedestrian bridges.

USR PM pedestrian bridg					1122.09	528.60	0.00	0.00	1650.69	
This item is for the	1.00	EA	IRLB3	0.10	1,122	529	0	0	1,651	1650.69
installation of a										
pre-fabricated steel bridge -										
like a Continental Bridge.										
USR PM prefab steel bri					0.00	0.00	0.00	12500.00	12500.00	
	1.00	EA		0.00	0	0	0	12,500	12,500	12500.00
USR PM concrete for abu					0.00	0.00	0.00	400.00	400.00	
	9.00	CY		0.00	0	0	0	3,600	3,600	400.00
USR PM safety & misc					0.00	0.00	0.00	1049.31	1049.31	
	1.00	LS		0.00	0	0	0	1,049	1,049	1049.31
Bridge - 10' x 5					1,122	529	0	17,149	18,800	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:21

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 54

B. Jones Creek

B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 03. Bridge - 10' x 150'

This item will include all equipment, labor, and materials required to furnish and install steel pedestrian bridges.

USR PM pedestrian bridg					1122.09	528.60	0.00	0.00	1650.69	
This item is for the	1.00	EA	IRLB3	0.10	1,122	529	0	0	1,651	1650.69
installation of a										
pre-fabricated steel bridge -										
like a Continental Bridge.										
USR PM prefab steel bri					0.00	0.00	0.00	78000.00	78000.00	
	1.00	EA		0.00	0	0	0	78,000	78,000	78000.00
USR PM concrete for abu					0.00	0.00	0.00	400.00	400.00	
	10.00	CY		0.00	0	0	0	4,000	4,000	400.00
USR PM safety & misc					0.00	0.00	0.00	1149.30	1149.30	
	1.00	LS		0.00	0	0	0	1,149	1,149	1149.30
Bridge - 10' x 1					1,122	529	0	83,149	84,800	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 55

B. Jones Creek

B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 04. Signs & Markers

This item entails all plant, labor, equipment, and materials necessary for purchase and placement of signs and markers. No requirements were given.

Assumptions:

1. 0.08" aluminum reflectorized signs

2. 2 galvanized steel posts per sign, 12' length

All signs can be placed in a 10 hour day.

USR PM Informational Si					21.36	0.00	0.00	0.00	21.36	
Mcaces #02722 11	20.00	EA	CPLBM	2.00	427	0	0	0	427	21.36
USR PM signs					0.00	0.00	43.20	0.00	43.20	
	20.00	EA		0.00	0	0	864	0	864	43.20
USR PM posts (2/sign)					0.00	0.00	27.00	0.00	27.00	
	40.00	EA		0.00	0	0	1,080	0	1,080	27.00
USR PM safety & misc					0.00	0.00	0.00	7.90	7.90	
	1.00	LS		0.00	0	0	0	8	8	7.90
USR PM concrete					0.00	0.00	0.00	160.00	160.00	
	1.00	LS		0.00	0	0	0	160	160	160.00
USR PM small tools (5%					0.00	21.00	0.00	0.00	21.00	
	1.00	LS		0.00	0	21	0	0	21	21.00
Signs & Markers	20.00	EA			427	21	1,944	168	2,560	128.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 56

B. Jones Creek

B 14. Recreation Facility	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 05. Trees

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees
5 gallon, 2 year crop

10 cypress - \$6 ea
5 drake elm - \$14 ea
5 swamp red maple - \$6 ea
10 sweet gum - \$6 ea
25 water oak - \$6 ea
30 willow oak - \$6 ea
5 crepe myrtle - \$8 ea
10 flash pine - \$11 ea

WEIGHTED COST: \$7/tree

USR PM tree planting -	4431.00	EA	TREE01B	30.00	16,348	2,090	0	0	18,438	4.16
USR PM small tools (5% o	1.00	LS		0.00	0	0	0	817	817	817.00
USR PM trees	4431.00	EA		0.00	0	0	33,498	0	33,498	7.56
USR PM safety & misc	1.00	LS		0.00	0	0	0	419	419	419.00
Trees	4431.00	EA			16,348	2,090	33,498	1,236	53,172	12.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 57

B. Jones Creek

B 14. Recreation Faciliti	QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 06. Fence (6' Wooden)

This item entails all plant, labor, equipment, and materials necessary for construction of a fence. We were given the requirements of 6' height and wood construction.

Assumptions:

1. 1" x 4" boards
2. 2" x 4" rails, 3 rails deep
3. 4" x 4" posts, 8' O.C., 10' length

= 10 FBM/LF

Production:

Crew one - excavate for posts, drop posts, set posts

6,930 posts @ 10 posts/hr

Crew two - set and hang rails, hang boards

6,930 sections @ 10 sections/hr

USR PM 6' wood fence (p					0.96	0.08	0.00	0.00	1.04	
this includes ex	55440	LF	CPLBM4	79.20	53,236	4,284	0	0	57,520	1.04
wood posts, drop posts, set										
posts @ 10 posts/hr										
posts are assumed to be 8'O.C.										
USR PM 6' wood fence (p					1.50	0.00	0.00	0.00	1.50	
this includes se	55440	LF	CPLBM3	79.20	83,134	0	0	0	83,134	1.50
hanging rails and boards.										
@ 10 - 8' long sections/hr										
USR PM small tools (5%					0.00	6818.00	0.00	0.00	6818.00	
1.00 LS				0.00	0	6,818	0	0	6,818	6818.00
USR PM wood (10 FBM/lf)					0.00	0.00	0.53	0.00	0.53	
554400 LF				0.00	0	0	293,388	0	293,388	0.53
USR PM concrete					0.00	0.00	124200.00	0.00	124200.00	
1.00 LS				0.00	0	0	124,200	0	124,200	124200.00
USR PM safety & misc					0.00	0.00	0.00	2645.67	2645.67	
1.00 LS				0.00	0	0	0	2,646	2,646	2645.67
Fence (6' Wooden	55440	LF			136,369	11,102	417,588	2,646	567,706	10.24
Recreation Facil					155,388	14,270	453,031	104,348	727,037	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
B. Jones Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 58

B 29. Project Cooperation	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 29. Project Cooperation Agreements

USR	Project Cooperat				0.00	0.00	0.00	1700.00	1700.00	
		1.00	LS	0.00	0	0	0	1,700	1,700	1700.00
	Project Cooperat				0	0	0	1,700	1,700	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 59

B. Jones Creek

B 30. Engineering and Des		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

B 30. Engineering and Design										
USR	Engineering and					0.00	2000000.00	0.00	504000.00	2504000.00
		1.00	LS		0.00	0	2,000,000	0	504,000	2,504,000 2504000
	Engineering and					0	2,000,000	0	504,000	2,504,000

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 60

B. Jones Creek

B 31. Construction Manage		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 31. Construction Management											
USR	Construction Man					0.00	2000000.00	0.00	649000.00	2649000.00	
		1.00	LS		0.00	0	2,000,000	0	649,000	2,649,000	2649000
	Construction Man					0	2,000,000	0	649,000	2,649,000	
	Jones Creek					2,236,434	5,519,034	3,954,958	22,968,175	34,678,601	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
C. Beaver Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 61

C 01. Lands and Damages	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C. Beaver Bayou

C 01. Lands and Damages

USR	Lands and Damage				0.00	1000000.00	0.00	512590.00	1512590.00	
		1.00	LS	0.00	0	1,000,000	0	512,590	1,512,590	1512590
	Lands and Damage				0	1,000,000	0	512,590	1,512,590	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 02

C. Beaver Bayou

C 02. Relocations		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 02. Relocations											
USR	Relocations					0.00	1000000.00	0.00	682240.00	1682240.00	
		1.00	LS		0.00	0	1,000,000	0	682,240	1,682,240	1682240
	Relocations					0	1,000,000	0	682,240	1,682,240	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 63

C. Beaver Bayou

C 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 06. Fish & Wildlife Facilities

C 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

The fence will consist of poles spaced appropriately with 4 strands of barb-wire.

1st site 7121 lf

USR PM Fencing	7121.00 LF	TRACTOR1	17.00	14,104	2,564	0	0	16,668	2.34
USR PM Fence post	7121.00 LF		0.00	0	0	11,536	0	11,536	1.62
USR PM Barbed wire - 4	28484 LF		0.00	0	0	923	0	923	0.03
USR PM safety & misc	1.00 LS		0.00	0	0	0	1,921	1,921	1920.78
Fencing - barbed 7121.00 LF				14,104	2,564	12,459	1,921	31,048	4.36

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

DETAILED ESTIMATE

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

DETAIL PAGE 84

C 06. Fish & Wildlife Fac	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 123 acre

USR PM planting trees	123.00 AC	TRACTOR1	0.80	42.09 5,177	7.65 941	0.00 0	0.00 0	49.74 6,118	49.74
USR PM seedlings (300)	36900 EA		0.00	0.00 0	0.00 0	0.16 5,978	0.00 0	0.16 5,978	0.16
USR PM safety & misc	1.00 LS		0.00	0.00 0	0.00 0	0.00 0	819.29 819	819.29 819	819.29
USR PM Land preparation	123.00 AC		0.00	0.00 0	0.00 0	0.00 0	15.00 1,845	15.00 1,845	15.00
Planting Trees	123.00 AC			5,177	941	5,978	2,664	14,760	120.00
Fish & Wildlife				19,281	3,505	18,437	4,585	45,808	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
C. Beaver Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 65

C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09. Channels and Canals

C 09010101 01. Mob & Demob

This item will include cost to do the following work:
mob and demob all equipment

per operation:

mob	1 day
demob	1 day
SUBTOTAL	2 days

of contracts 1

2 operations x 1 contracts = 2 operations

2 operations x 2 days/operation = 4 days + 1 day (additional) = 5 days

USR PM AIR COMPRESSOR	50.00 HR	AIRF	1.00	0.00	2.92	0.00	0.00	2.92	
				0	146	0	0	146	2.92
USR PM BACKHOE CAT 235	50.00 HR	BKHC	1.00	0.00	39.52	0.00	0.00	39.52	
				0	1,976	0	0	1,976	39.52
USR PM BACKHOE, HITACHI	50.00 HR	BKHI	1.00	0.00	14.21	0.00	0.00	14.21	
				0	711	0	0	711	14.21
USR PM chipping machine	50.00 HR	CHIPPER	1.00	0.00	15.00	0.00	0.00	15.00	
				0	750	0	0	750	15.00
USR PM chainsaw, Homeli	100.00 HR	CHNSAW	1.00	0.00	0.17	0.00	0.00	0.17	
				0	17	0	0	17	0.17
USR PM CHERRY PICKER GRO	50.00 HR	CHYA	1.00	0.00	13.53	0.00	0.00	13.53	
				0	677	0	0	677	13.53
USR PM sealant hot mixe	50.00 HR	CMLT	1.00	0.00	3.50	0.00	0.00	3.50	
				0	175	0	0	175	3.50
USR PM CONCRETE PAVER 2	50.00 HR	CNPV	1.00	0.00	27.97	0.00	0.00	27.97	
				0	1,399	0	0	1,399	27.97
USR PM DOZER D-4 W/BLAD	50.00 HR	DOZA	1.00	0.00	7.56	0.00	0.00	7.56	
				0	378	0	0	378	7.56
USR PM DOZER D-6 W/BLAD	150.00 HR	DOZB	1.00	0.00	13.85	0.00	0.00	13.85	
				0	2,078	0	0	2,078	13.85
USR PM F E LOADER CAT 9	50.00 HR	FELA	1.00	0.00	13.73	0.00	0.00	13.73	
				0	687	0	0	687	13.73
USR PM MOTOR GRADER CAT	50.00 HR	MOTG	1.00	0.00	13.17	0.00	0.00	13.17	
				0	659	0	0	659	13.17

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 68

C. Beaver Bayou

C 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09011502 02. Excavation										
Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.										
Assumption:										
1. Truck access is available on either side of the canal.										
2. Trucks will enter the worksite from the lower end and exit from the upper end or vice-versa.										
Center of gravity for Main channel is near Beaver Bayou & Hwy 3034.										
USR PM safety & misc	1.00	LS		0.00	0	0	0	90,935	90,935	90935.30
					0.00	0.00	0.00	90935.30	90935.30	
USR PM all other operat	1.00	LS		0.00	0	31,492	0	0	31,492	31492.00
					0.00	31492.00	0.00	0.00	31492.00	
USR PM small tools	1.00	LS		0.00	0	34,542	0	0	34,542	34542.00
					0.00	34542.00	0.00	0.00	34542.00	
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	230,637	230,637	230637.00
					0.00	0.00	0.00	230637.00	230637.00	
USR PM BACKHOE CAT 235	2172.00	HR	BKHC	1.00	0	149,390	0	0	149,390	68.78
					0.00	68.78	0.00	0.00	68.78	
USR PM DOZER D-6 W/BLAD	3258.00	HR	DOZB	1.00	0	104,289	0	0	104,289	32.01
					0.00	32.01	0.00	0.00	32.01	
USR PM trailer truck, 2	45612	HR	TRKH	1.00	0	1,277,136	0	0	1,277,136	28.00
					0.00	28.00	0.00	0.00	28.00	
USR PM WATER TRUCK 2000	1086.00	HR	TRKA	1.00	0	17,398	0	0	17,398	16.02
					0.00	16.02	0.00	0.00	16.02	
USR PM MOTOR GRADER CAT	1086.00	HR	MOTG	1.00	0	26,379	0	0	26,379	24.29
					0.00	24.29	0.00	0.00	24.29	
USR PM OILER	2172.00	HR	OILM	1.00	35,842	0	0	0	35,842	16.50
					16.50	0.00	0.00	0.00	16.50	
USR PM TRUCK DRIVER	45612	HR	TRKM	1.00	798,210	0	0	0	798,210	17.50
					17.50	0.00	0.00	0.00	17.50	
USR PM PEO-backhoe	2172.00	HR	PEOM	1.00	56,124	0	0	0	56,124	25.84
					25.84	0.00	0.00	0.00	25.84	
USR PM PEO-dozer	3258.00	HR	PEOM	1.00	84,186	0	0	0	84,186	25.84
					25.84	0.00	0.00	0.00	25.84	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 69

C. Beaver Bayou

C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	1086.00	HR	PEOM	1.00	28,062	0	0	0	28,062	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	1086.00	HR	TRKM	1.00	19,005	0	0	0	19,005	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	4344.00	HR	LABM	1.00	72,415	0	0	0	72,415	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	2172.00	HR	FOREMAN3	1.00	57,558	0	0	0	57,558	26.50
Excavation	695000	CY			1,151,402	1,640,625	0	321,572	3,113,600	4.48

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

DETAILED ESTIMATE

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

DETAIL PAGE

C 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09013002 01. Geotextile Mat Turf Reinforcement

The geotextile mat will be laid out once the channel is cut to grade. Channel excavation is expected to begin at the Comite River and continue upstream. The fabric will be anchored by stone on the bottom of the channel. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the area as dry as possible.

USR PM Turf reinforcement					0.27	0.05	0.00	0.00	0.32	
545100 SY	CHYPK2		500.00	147,930	28,672	0	0	176,602	0.32	
USR PM geotextile					0.00	0.00	4.10	0.00	4.10	
545100 SY			0.00	0	0	2,237,090	0	2,237,090	4.10	
USR PM pins					0.00	0.00	0.32	0.00	0.32	
545100 SY			0.00	0	0	176,612	0	176,612	0.32	
USR PM safety & misc					0.00	0.00	0.00	26175.00	26175.00	
1.00 LS			0.00	0	0	0	26,175	26,175	26175.00	
Geotextile Mat T	545100 SY			147,930	28,672	2,413,703	26,175	2,616,480		

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 71

C. Beaver Bayou

C 09. Channels and Canals	QUANTITY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09013002 02. R-90 Stone											
This item will include cost to furnish and place the stone only. Provision for a railroad spur will be required for offloading the rock. The nearest location is in the vicinity of Denham Springs, La. The rock will be offloaded by backhoes into trucks. The trucks will stockpile the material in the vicinity of Wax Road and Beaver Bayou. When required, the material will be trucked to the placement location where it will dump into a box. A dragline will then place the stone into the section.											
USR PM rip-rap:by train						0.93	1.11	0.00	0.00	2.04	
This item is for stone that is OCK1 delivered by train, offloaded into trucks by backhoe, and hauled to a temporary stockpile area.	225.00				120,947	144,545	0	0	265,492	2.04	
USR PM rip-rap:load fr						0.89	0.91	0.00	0.00	1.81	
This item is for loading stone OCK2 from a stockpile by backhoe and hauling to the site. There it will be placed by a dragline with a rock box.	225.00				115,925	119,090	0	0	235,014	1.81	
USR PM safety & misc	1.00	LS			0.00	0	0	0	20,665	20,665.00	20665.00
USR PM stone - material	130200	TON			0.00	0	0	457,002	0	457,002	3.51
USR PM stone - delivery	130200	TON			0.00	0	0	0	911,400	911,400	7.00
USR PM rail spur	1.00	LS			0.00	0	0	0	25,000	25,000	25000.00
USR PM small tools	1.00	LS			0.00	0	7,111	0	0	7,111	7111.00
USR PM all other operat	1.00	LS			0.00	0	5,276	0	0	5,276	5276.00
R-90 Stone	130200	TN				236,872	276,022	457,002	957,065	1,926,960	14.80

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE

C. Beaver Bayou

C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09013002 03. Hydromulch

This item includes the cost to do the following work:

Place hydromulch over the turf reinforcement.

USR PM hydro mulching	322400	SY	MULCH1	450.00	11,943	7,164	41,783	0	60,891	0.19
USR PM safety & misc	1.00	LS		0.00	0	0	0	3,589	3,589	3589.00
Hydromulch	322400	SY			11,943	7,164	41,783	3,589	64,480	0.20

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
C. Beaver Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 73

C 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09013002 04. Excavation for stone

Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.

Assumption:

1. Truck access is available on either side of the canal.

Center of gravity for Main channel is near Beaver Bayou & Hwy 3034.

USR PM safety & misc	1.00	LS		0.00	0	0	0	14,603	14,603	14603.00
USR PM all other operat	1.00	LS		0.00	0	5,249	0	0	5,249	5249.00
USR PM small tools	1.00	LS		0.00	0	5,757	0	0	5,757	5757.00
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	38,395	38,395	38395.00
USR PM BACKHOE CAT 235	362.00	HR	BKHC	1.00	0	24,898	0	0	24,898	68.78
USR PM DOZER D-6 W/BLAD	543.00	HR	DOZB	1.00	0	17,381	0	0	17,381	32.01
USR PM trailer truck, 2	7602.00	HR	TRKH	1.00	0	212,856	0	0	212,856	28.00
USR PM WATER TRUCK 2000	181.00	HR	TRKA	1.00	0	2,900	0	0	2,900	16.02
USR PM MOTOR GRADER CAT	181.00	HR	MOTG	1.00	0	4,396	0	0	4,396	24.29
USR PM OILER	362.00	HR	OILM	1.00	5,974	0	0	0	5,974	16.50
USR PM TRUCK DRIVER	7602.00	HR	TRKM	1.00	133,035	0	0	0	133,035	17.50
USR PM PEO-backhoe	362.00	HR	PEOM	1.00	9,354	0	0	0	9,354	25.84
USR PM PEO-dozer	543.00	HR	PEOM	1.00	14,031	0	0	0	14,031	25.84
USR PM PEO-motor grader	181.00	HR	PEOM	1.00	4,677	0	0	0	4,677	25.84

Tue 27 Sep 1994

DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

TIME 10:16:01

DETAIL PAGE 74

C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50
	181.00	HR	TRKM	1.00	3,168	0	0	0	3,168 17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67
	724.00	HR	LABM	1.00	12,069	0	0	0	12,069 16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50
	362.00	HR	FOREMAN3	1.00	9,593	0	0	0	9,593 26.50
Excavation for #	115700	CY			191,900	273,438	0	52,998	518,336 4.48

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 75

C 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09013002 05. Fuseplug Dams										
This item will include cost to do the following work:										
Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.										
total length of all work: 85,600 LF										
Quantity: 65,600 lf / 2,000 lf/dam = 32.8 dams										
32.8 dams * 2(replacement factor) = 66 dams; SAY 65 dams										
Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss										
=> approx. 40 cy/dam; 65 dams * 40 cy/dam = 2600 cy										
Estimated time: 1 dam per day										
USR PM construct dams	2600.00	CY	BKH002	4.00	16,796	23,998	0	0	40,794	15.69
USR PM culvert	6.00	EA		0.00	0	0	6,480	0	6,480	1080.00
USR PM breaching dams	32.00	EA		0.00	0	0	0	12,800	12,800	400.00
USR PM safety & misc	1.00	LS		0.00	0	0	0	2,326	2,326	2326.19
Fuseplug Dams					16,796	23,998	6,480	15,126	62,400	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

DETAILED ESTIMATE

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

DETAIL PAGE 76

C 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09019906 01. Aesthetic Tree Planting										
This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.										
Note: Cost for trees based on assumptions of the following trees										
5 gallon, 2 year crop										
10 cypress - \$6 ea										
5 drake elm - \$14 ea										
5 swamp red maple - \$6 ea										
10 sweet gum - \$6 ea										
25 water oak - \$6 ea										
30 willow oak - \$6 ea										
5 crepe myrtle - \$8 ea										
10 flash pine - \$11 ea										

WEIGHTED COST: \$7/tree										
USR PM tree planting -	4500.00	EA	TREE01B	30.00	16,602	2,123	0	0	18,725	4.16
USR PM small tools (5% o	1.00	LS		0.00	0	830	0	0	830	830.00
USR PM trees	4500.00	EA		0.00	0	0	34,020	0	34,020	7.56
USR PM safety & misc	1.00	LS		0.00	0	0	0	425	425	425.00
Aesthetic Tree P	4500.00	EA			16,602	2,953	34,020	425	54,000	12.00
Channels and Can					2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 77

C 29. Project Cooperation	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 29. Project Cooperation Agreements

USR	Project Cooperat				0.00	0.00	0.00	4100.00	4100.00	
	1.00 LS			0.00	0	0	0	4,100	4,100	4100.00
	Project Cooperat				0	0	0	4,100	4,100	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
C. Beaver Bayou

TIME 10:10

DETAILED ESTIMATE

DETAIL PAGE 78

C 30. Engineering and Des		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 30. Engineering and Design											
USR	Engineering and					0.00	1000000.00	0.00	250000.00	1250000.00	
		1.00	LS		0.00	0	1,000,000	0	250,000	1,250,000	1250000
	Engineering and					0	1,000,000	0	250,000	1,250,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C. Beaver Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 79

C 31. Construction Manage	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

C 31. Construction Management									
USR	Construction Man				0.00	0.00	0.00	583000.00	583000.00
	1.00 LS			0.00	0	0	0	583,000	583,000 583000.00
	Construction Man				0	0	0	583,000	583,000
	Beaver Bayou				2,394,424	5,786,578	2,971,425	3,495,966	14,648,393

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 80

D 01. Lands & Damages		QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D. Blackwater Bayou												
D 01. Lands & Damages												
USR	Lands and Damage						0.00	1000000.00	0.00	476000.00	1476000.00	
		1.00	LS			0.00	0	1,000,000	0	476,000	1,476,000	1476000
	Lands & Damages						0	1,000,000	0	476,000	1,476,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 81

D 02. Relocations		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 02. Relocations											
USR	Relocations					0.00	1000000.00	0.00	675680.00	1675680.00	
		1.00	LS		0.00	0	1,000,000	0	675,680	1,675,680	1675680
	Relocations					0	1,000,000	0	675,680	1,675,680	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16

DETAILED ESTIMATE

DETAIL PAGE 82

D 06. Fish & Wildlife Fac	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 06. Fish & Wildlife Facilities

D 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

It will consist of poles spaced appropriately with 4 strands of wire.

1st site 6203 lf

USR PM Fencing	6203.00 LF	TRACTOR1	17.00	12,286	2,233	0	0	14,519	2.34
USR PM Fence post	6203.00 LF		0.00	0	0	10,049	0	10,049	1.62
USR PM Barbed wire - 4	24812 LF		0.00	0	0	804	0	804	0.03
USR PM safety & misc	1.00 LS		0.00	0	0	0	1,673	1,673	1673.17
Fencing - barbed 6203.00 LF				12,286	2,233	10,853	1,673	27,045	4.36

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 83

D 06. Fish & Wildlife Fac	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 107 acre

USR PM planting trees	107.00	AC	TRACTOR1	0.80	42.09 4,504	7.65 819	0.00 0	0.00 0	49.74 5,322	49.74
USR PM seedlings (300)	32100	EA		0.00	0.00 0	0.00 0	0.16 5,200	0.00 0	0.16 5,200	0.16
USR PM safety & misc	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	712.71 713	712.71 713	712.71
USR PM Land preparation	107.00	AC		0.00	0.00 0	0.00 0	0.00 0	15.00 1,605	15.00 1,605	15.00
Planting Trees	107.00	AC			4,504	819	5,200	2,318	12,840	120.00
Fish & Wildlife					16,790	3,052	16,053	3,991	39,885	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 84

D. Blackwater Bayou

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 09. Channels and Canals										
D 09010101 01. Mob & Demob										
This item will include cost to do the following work:										
mob and demob all equipment										
1 operation										
mob 1 day										
demob 1 day										
subtotal 2 days										
# of contracts 1										
2 operation x 1 contracts = 2 operations										
2 operations x 2 wd / operation = 4 days + 2 days (additional) = 6 wd										
USR PM BACKHOE CAT 235	120.00	HR	BKHC	1.00	0.00	39.52	0.00	0.00	39.52	
					0	4,742	0	0	4,742	39.52
USR PM chipping machine	60.00	HR	CHIPPER	1.00	0.00	15.00	0.00	0.00	15.00	
					0	900	0	0	900	15.00
USR PM chainsaw, Homeli	120.00	HR	CHNSAW	1.00	0.00	0.17	0.00	0.00	0.17	
					0	20	0	0	20	0.17
USR PM CHERRY PICKER GRO	60.00	HR	CHYA	1.00	0.00	13.53	0.00	0.00	13.53	
					0	812	0	0	812	13.53
USR PM DOZER D-6 W/BLAD	180.00	HR	DOZB	1.00	0.00	13.85	0.00	0.00	13.85	
					0	2,493	0	0	2,493	13.85
USR PM F E LOADER CAT 9	60.00	HR	FELA	1.00	0.00	13.73	0.00	0.00	13.73	
					0	824	0	0	824	13.73
USR PM WATER TRUCK 2000	60.00	HR	TRKA	1.00	0.00	5.97	0.00	0.00	5.97	
					0	358	0	0	358	5.97
USR PM foreman 3 \$26.5	240.00	HR	FOREMAN3	1.00	26.50	0.00	0.00	0.00	26.50	
					6,360	0	0	0	6,360	26.50
USR PM LABORER	420.00	HR	LABM	1.00	16.67	0.00	0.00	0.00	16.67	
					7,001	0	0	0	7,001	16
USR PM PEO-ALL EXCPT DR	660.00	HR	PEOM	1.00	25.84	0.00	0.00	0.00	25.84	
					17,054	0	0	0	17,054	25.84
USR PM TRUCK DRIVER	840.00	HR	TRKM	1.00	17.50	0.00	0.00	0.00	17.50	
					14,700	0	0	0	14,700	17.50
USR PM trailering	22.00	EA		0.00	0.00	0.00	0.00	1500.00	1500.00	
					0	0	0	33,000	33,000	1500.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 85

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM safety & misc	1.00	LS		0.00	-1.09 -1	0.00 0	0.00 0	6573.00 6,573	6571.91 6,572	6571.91
USR PM BACKHOE, HITACHI	60.00	HR	BKHI	1.00	0.00 0	14.21 853	0.00 0	0.00 0	14.21 853	14.21
USR PM trailer truck, 2	840.00	HR	TRKH	1.00	0.00 0	28.00 23,520	0.00 0	0.00 0	28.00 23,520	28.00
USR PM MOTOR GRADER CAT	60.00	HR	MOTG	1.00	0.00 0	13.17 790	0.00 0	0.00 0	13.17 790	13.17
Mob & Demob					45,115	35,312	0	39,573	120,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16

DETAILED ESTIMATE

DETAIL PAGE 86

D 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09011502 01. Clearing for Channel Dredging

This item will include all cost to clear and grub the:

1. channel right of way
2. access right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

USR PM Clearing w/D-6,F					1373.60	921.40	0.00	0.00	2295.00	
164.00 AC	CLEARING2	0.10	225,270	151,110		0	0	376,379	2295.00	
USR PM Grubbing w/ Cat					1040.19	1257.90	0.00	0.00	2298.09	
164.00 AC	GRUBBING1	0.10	170,591	206,296		0	0	376,887	2298.09	
USR PM safety & misc					0.00	0.00	0.00	20813.90	20813.90	
1.00 LS		0.00	0	0		0	0	20,814	20,814	20813.90
Clearing for Cha	164.00 AC		395,861	357,405		0	0	20,814	774,080	472

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 87

D. Blackwater Bayou

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09011502 02. Excavation

Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.

Assumption:

1. Truck access is available on either side of the canal.
2. Trucks will enter the worksite from the lower end and exit from the upper end or vice-versa.

Center of gravity for Main channel is near Blackwater Road and Blackwater Bayou.

USR PM safety & misc	1.00	LS		0.00	0	0	0	45,274	45,274	45274.00
USR PM all other operat	1.00	LS		0.00	0	21,063	0	0	21,063	21063.00
USR PM small tools	1.00	LS		0.00	0	24,347	0	0	24,347	24347.00
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	156,430	156,430	156430.00
USR PM BACKHOE CAT 235	1991.00	HR	BKHC	1.00	0	136,941	0	0	136,941	68.78
USR PM DOZER D-6 W/BLAD	2986.50	HR	DOZB	1.00	0	95,598	0	0	95,598	32.01
USR PM trailer truck, 2	27874	HR	TRKH	1.00	0	780,472	0	0	780,472	28.00
USR PM WATER TRUCK 2000	995.50	HR	TRKA	1.00	0	15,948	0	0	15,948	16.02
USR PM MOTOR GRADER CAT	995.50	HR	MOTG	1.00	0	24,181	0	0	24,181	24.29
USR PM OILER	1991.00	HR	OILM	1.00	32,855	0	0	0	32,855	16.50
USR PM TRUCK DRIVER	27874	HR	TRKM	1.00	487,795	0	0	0	487,795	17.50
USR PM PEO-backhoe	1991.00	HR	PEOM	1.00	51,447	0	0	0	51,447	25.84
USR PM PEO-dozer	2986.50	HR	PEOM	1.00	77,170	0	0	0	77,170	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16

DETAILED ESTIMATE

DETAIL PAGE 88

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	995.50	HR	PEOM	1.00	25,723	0	0	0	25,723	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	995.50	HR	TRKM	1.00	17,421	0	0	0	17,421	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	3982.00	HR	LABM	1.00	66,381	0	0	0	66,381	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	1991.00	HR	FOREMAN3	1.00	52,762	0	0	0	52,762	26.50
Excavation	517600	CY			811,554	1,098,549	0	201,704	2,111,808	4.08

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 89

D 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09013002 01. Geotextile Mat Turf Reinforcement

The geotextile mat will be laid out once the channel is cut to grade. Channel excavation is expected to begin at the Comite River and continue upstream. The fabric will be anchored by stone on the bottom of the channel. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the area as dry as possible.

USR PM Turf reinforcement					0.27	0.05	0.00	0.00	0.32	
887000 SY	CHYPK2	500.00		240,715	46,656	0	0	287,372	0.32	
USR PM geotextile					0.00	0.00	4.10	0.00	4.10	
887000 SY		0.00		0	0	3,640,248	0	3,640,248	4.10	
USR PM pins					0.00	0.00	0.32	0.00	0.32	
887000 SY		0.00		0	0	287,388	0	287,388	0.32	
USR PM safety & misc					0.00	0.00	0.00	42592.30	42592.30	
1.00 LS		0.00		0	0	0	42,592	42,592	42592.30	
Geotextile Mat T	887000 SY			240,715	46,656	3,927,636	42,592	4,257,600	4.80	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:15

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 90

D. Blackwater Bayou

D 09. Channels and Canals	QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 09013002 02. R-90 Stone											
This item will include cost to furnish and place the stone only. Provision for a railroad spur will be required for offloading the rock. The nearest location is in the vicinity of Denham Springs, La. The rock will be offloaded by backhoes into trucks. The trucks will stockpile the material in the vicinity of Hooper Road and Blackwater Bayou. When required, the material will be trucked to the placement location where it will dump into a box. A dragline will then place the stone into the section.											
USR PM rip-rap:by train						1.01	1.23	0.00	0.00	2.24	
This item is for stone that is	OCK1A				225.00	138,725	170,131	0	0	308,856	2.24
delivered by train, offloaded											
into trucks by backhoe, and											
hailed to a temporary											
stockpile area.											
USR PM rip-rap:load fr						1.05	1.16	0.00	0.00	2.21	
This item is for loading stone	OCK2A				225.00	144,127	160,338	0	0	304,465	2.21
from a stockpile by backhoe and											
hauling to the site. There it											
will be placed by a											
dragline with a rock box.											
USR PM safety & misc						0.00	0.00	0.00	47997.70	47997.70	
1.00 LS					0.00	0	0	0	47,998	47,998	47997.70
USR PM stone - material						0.00	0.00	3.51	0.00	3.51	
137800 TON					0.00	0	0	483,678	0	483,678	3.51
USR PM stone - delivery						0.00	0.00	0.00	7.00	7.00	
137800 TON					0.00	0	0	0	964,600	964,600	7.00
USR PM rail spur						0.00	0.00	0.00	25000.00	25000.00	
1.00 LS					0.00	0	0	0	25,000	25,000	25000.00
USR PM small tools						0.00	8480.00	0.00	0.00	8480.00	
1.00 LS					0.00	0	8,480	0	0	8,480	8480.00
USR PM all other operat						0.00	6604.00	0.00	0.00	6604.00	
1.00 LS					0.00	0	6,604	0	0	6,604	6604.00
R-90 Stone	137800 TN					282,852	345,553	483,678	1,037,598	2,149,680	15.60

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 91

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

D 09013002 03. Hydromulch									
This item includes the cost to do the following work:									
Place hydromulch over the turf reinforcement.									
USR PM hydro mulching	551500	SY	MULCH1	450.00	20,430	12,256	71,474	0	104,160 0.19
USR PM safety & misc	1.00	LS		0.00	0	0	0	6,140	6,140 6139.79
Hydromulch	551500	SY			20,430	12,256	71,474	6,140	110,300 0.20

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
D. Blackwater Bayou

TIME 10:1

DETAILED ESTIMATE

DETAIL PAGE 92

D 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09013002 04. Excavation for stone

Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.

Assumption:

1. Truck access is available on either side of the bayou.

2. Trucks will enter the worksite from the lower end and exit from the upper end or vice-versa.

Center of gravity for Main channel is near Blackwater Rd. and Blackwater Bayou.

USR PM safety & misc	1.00	LS		0.00	0	0	0	12,282	12,281.70	12,281.70
USR PM all other operat	1.00	LS		0.00	0	5,755	0	0	5,755.00	5,755.00
USR PM small tools	1.00	LS		0.00	0	6,652	0	0	6,652.00	6,652.00
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	42,734	42,734.00	42,734.00
USR PM BACKHOE CAT 235	544.00	HR	BKHC	1.00	0	37,416	0	0	37,416.00	68.78
USR PM DOZER D-6 W/BLAD	816.00	HR	DOZB	1.00	0	26,120	0	0	26,120.00	32.01
USR PM trailer truck, 2	7616.00	HR	TRKH	1.00	0	213,248	0	0	213,248.00	28.00
USR PM WATER TRUCK 2000	272.00	HR	TRKA	1.00	0	4,357	0	0	4,357.00	16.02
USR PM MOTOR GRADER CAT	272.00	HR	MOTG	1.00	0	6,607	0	0	6,607.00	24.29
USR PM OILER	544.00	HR	OILM	1.00	8,977	0	0	0	8,977.00	16.50
USR PM TRUCK DRIVER	7616.00	HR	TRKM	1.00	133,280	0	0	0	133,280.00	17.50
USR PM PEO-backhoe	544.00	HR	PEOM	1.00	14,057	0	0	0	14,057.00	25.84
USR PM PEO-dozer	816.00	HR	PEOM	1.00	21,085	0	0	0	21,085.00	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 93

D. Blackwater Bayou

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84
	272.00	HR	PEOM	1.00	7,028	0	0	0	7,028 25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50
	272.00	HR	TRKM	1.00	4,760	0	0	0	4,760 17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67
	1088.00	HR	LABM	1.00	18,137	0	0	0	18,137 16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50
	544.00	HR	FOREMAN3	1.00	14,416	0	0	0	14,416 26.50
Excavation for s 141400 CY					221,741	300,156	0	55,016	576,912 4.08

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
D. Blackwater Bayou

TIME 10:1

DETAILED ESTIMATE

DETAIL PAGE 94

D 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 09013002 05. Fuseplug Dams										
This item will include cost to do the following work:										
Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.										
total length of all work: 81,700 LF										
Quantity: 81,700 lf / 2,000 lf/dam = 40.8 dams										
40.8 dams * 2(replacement factor) = 82 dams; SAY 85 dams										
Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss										
=> approx. 40 cy/dam; 85 dams * 40 cy/dam = 3400 cy										
Estimated time: 1 dam per day										
USR PM construct dams	3400.00	CY	BKH002	4.00	21,964	31,382	0	0	53,346	15.69
USR PM culvert	6.00	EA		0.00	0	0	6,480	0	6,480	1080.00
USR PM breaching dams	40.00	EA		0.00	0	0	0	16,000	16,000	400.00
USR PM safety & misc	1.00	LS		0.00	0	0	0	5,774	5,774	5774.25
Fuseplug Dams					21,964	31,382	6,480	21,774	81,600	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 95

D 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 09019906 01. Aesthetic Tree Planting										
This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.										
Note: Cost for trees based on assumptions of the following trees										
5 gallon, 2 year crop										
10 cypress - \$6 ea										
5 drake elm - \$14 ea										
5 swamp red maple - \$6 ea										
10 sweet gum - \$6 ea										
25 water oak - \$6 ea										
30 willow oak - \$6 ea										
5 crepe myrtle - \$8 ea										
10 flash pine - \$11 ea										

WEIGHTED COST: \$7/tree										
USR PM tree planting -	5700.00	EA	TREE01B	30.00	21,029	2,689	0	0	23,718	4.16
USR PM small tools(5% o	1.00	LS		0.00	0	1,051	0	0	1,051	1051.00
USR PM trees	5700.00	EA		0.00	0	0	43,092	0	43,092	7.56
USR PM safety & misc	1.00	LS		0.00	0	0	0	539	539	539.00
Aesthetic Tree P	5700.00	EA			21,029	3,740	43,092	539	68,400	12.00
Channels and Can					2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:11

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 96

D. Blackwater Bayou

D 29. Project Cooperation	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 29. Project Cooperation Agreements

USR	Project Cooperat				0.00	0.00	0.00	4100.00	4100.00	
		1.00 LS		0.00	0	0	0	4,100	4,100	4100.00
	Project Cooperat				0	0	0	4,100	4,100	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
D. Blackwater Bayou

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 97

D 30. Engineering and Des		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 30. Engineering and Design											
USR	Engineering and					0.00	1000000.00	0.00	226000.00	1226000.00	
		1.00	LS		0.00	0	1,000,000	0	226,000	1,226,000	1226000
	Engineering and					0	1,000,000	0	226,000	1,226,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:00

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D. Blackwater Bayou

DETAILED ESTIMATE

DETAIL PAGE 98

D 31. Construction Manage	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

D 31. Construction Management									
USR	Construction Man				0.00	0.00	0.00	708000.00	708000.00
		1.00	LS	0.00	0	0	0	708,000	708,000 708000.00

	Construction Man				0	0	0	708,000	708,000

	Blackwater Bayou				2,078,051	5,234,061	4,548,413	3,519,520	15,380,045

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 99

E. Ward Creek

E 01. Lands and Damages	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E. Ward Creek										
E 01. Lands and Damages										
USR	Lands and Damage				0.00	0.00	0.00	122540.00	122540.00	
		1.00	LS	0.00	0	0	0	122,540	122,540	122540.00
	Lands and Damage				0	0	0	122,540	122,540	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 100

E 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 06. Fish & Wildlife Facilities										
E 06037102 01. Fencing - barbed wire										
This item will include cost to do the following work:										
Fencing the selected mitigation site.										
The fence will consist of poles spaced appropriately with 4 strands of barb-wire.										
1st site 1838 lf										
USR PM Fencing	1838.00	LF	TRACTOR1	17.00	1.98 3,640	0.36 662	0.00 0	0.00 0	2.34 4,302	2.34
USR PM Fence post	1838.00	LF		0.00	0.00 0	0.00 0	1.62 2,978	0.00 0	1.62 2,978	1.62
USR PM Barbed wire - 4	7352.00	LF		0.00	0.00 0	0.00 0	0.03 238	0.00 0	0.03 238	0.03
USR PM safety & misc	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	495.77 496	495.77 496	495.77
Fencing - barbed 1838.00 LF					3,640	662	3,216	496	8,014	4.36

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 101

DETAILED ESTIMATE

E. Ward Creek

E 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 32 acre

USR PM planting trees	32.00 AC	TRACTOR1	0.80	42.09	7.65	0.00	0.00	49.74	
				1,347	245	0	0	1,592	49.74
USR PM seedlings (300)	9600.00 EA		0.00	0.00	0.00	0.16	0.00	0.16	
				0	0	1,555	0	1,555	0.16
USR PM safety & misc	1.00 LS		0.00	0.00	0.00	0.00	213.00	213.00	
				0	0	0	213	213	213.00
USR PM Land preparation	32.00 AC		0.00	0.00	0.00	0.00	15.00	15.00	
				0	0	0	480	480	15.00
Planting Trees	32.00 AC			1,347	245	1,555	693	3,840	120.00
Fish & Wildlife				4,987	906	4,771	1,189	11,854	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 102

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09. Channels and Canals

E 09010101 01. Mob & Demob

This item will include cost to do the following work:
 mob and demob all equipment

1 operation

mob	1 day
demob	1 day
subtotal	2 days

of contracts 1

1 operation x 1 contracts = 1 operations

1 operations x 2 wd / operation = 2 days + 1 days (additional) = 3 wd

USR PM AIR COMPRESSOR	30.00 HR	AIRF	1.00	0.00	2.92	0.00	0.00	2.92	
				0	88	0	0	88	2.92
USR PM BACKHOE CAT 225B	60.00 HR	BKHB	1.00	0.00	20.95	0.00	0.00	20.95	
				0	1,257	0	0	1,257	20.95
USR PM BACKHOE CAT 235	30.00 HR	BKHC	1.00	0.00	39.52	0.00	0.00	39.52	
				0	1,186	0	0	1,186	39.52
USR PM chipping machine	30.00 HR	CHIPPER	1.00	0.00	15.00	0.00	0.00	15.00	
				0	450	0	0	450	15.00
USR PM chainsaw, Homell	60.00 HR	CHNSAW	1.00	0.00	0.17	0.00	0.00	0.17	
				0	10	0	0	10	0.17
USR PM CHERRY PICKER GRO	30.00 HR	CHYA	1.00	0.00	13.53	0.00	0.00	13.53	
				0	406	0	0	406	13.53
USR PM sealant hot mixe	30.00 HR	CMLT	1.00	0.00	3.50	0.00	0.00	3.50	
				0	105	0	0	105	3.50
USR PM CONCRETE PAVER 2	30.00 HR	CNPV	1.00	0.00	27.97	0.00	0.00	27.97	
				0	839	0	0	839	27.97
USR PM DOZER D-4 W/BLAD	30.00 HR	DOZA	1.00	0.00	7.56	0.00	0.00	7.56	
				0	227	0	0	227	7.56
USR PM DOZER D-6 W/BLAD	150.00 HR	DOZB	1.00	0.00	13.85	0.00	0.00	13.85	
				0	2,078	0	0	2,078	13.85
USR PM F E LOADER CAT 9	30.00 HR	FELA	1.00	0.00	13.73	0.00	0.00	13.73	
				0	412	0	0	412	13.73
USR PM MOTOR GRADER CAT	30.00 HR	MOTG	1.00	0.00	13.17	0.00	0.00	13.17	
				0	395	0	0	395	13.17

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 103

E. Ward Creek

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM WATER PUMP 3" HO					0.00	0.15	0.00	0.00	0.15	
	30.00	HR	PMPC	1.00	0	5	0	0	5	0.15
USR PM trencher, chain,					0.00	1.74	0.00	0.00	1.74	
	30.00	HR	T30DW002	1.00	0	52	0	0	52	1.74
USR PM FARM TRACTOR JD					0.00	2.24	0.00	0.00	2.24	
	30.00	HR	TRCB	1.00	0	67	0	0	67	2.24
USR PM WATER TRUCK 2000					0.00	5.97	0.00	0.00	5.97	
	30.00	HR	TRKA	1.00	0	179	0	0	179	5.97
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	750.00	HR	TRKI	1.00	0	16,500	0	0	16,500	22.00
USR PM CARPENTER					26.04	0.00	0.00	0.00	26.04	
	60.00	HR	CARM	1.00	1,562	0	0	0	1,562	26.04
USR PM CEMENT MASON					23.26	0.00	0.00	0.00	23.26	
	120.00	HR	CMNM	1.00	2,792	0	0	0	2,792	23.26
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	150.00	HR	FOREMAN3	1.00	3,975	0	0	0	3,975	26.50
USR PM IRONWORKER					26.18	0.00	0.00	0.00	26.18	
	30.00	HR	IRNM	1.00	786	0	0	0	786	26.18
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	120.00	HR	LABM	1.00	2,000	0	0	0	2,000	16.67
USR PM PEO-ALL EXCPT DR					25.84	0.00	0.00	0.00	25.84	
	540.00	HR	PEOM	1.00	13,953	0	0	0	13,953	25.84
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	750.00	HR	TRKM	1.00	13,125	0	0	0	13,125	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	300.00	HR	LABM	1.00	5,001	0	0	0	5,001	16.67
USR PM LABORER (reinf)					16.67	0.00	0.00	0.00	16.67	
	60.00	HR	LABM	1.00	1,000	0	0	0	1,000	16.67
USR PM trailering					0.00	0.00	0.00	1500.00	1500.00	
	17.00	EA		0.00	0	0	0	25,500	25,500	1500.00
USR PM safety & misc					-0.40	0.00	0.00	26051.00	26050.60	
	1.00	LS		0.00	0	0	0	26,051	26,051	26050.60
Mob & Demob					44,194	24,255	0	51,551	120,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 104

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09011502 01. Clearing for Channel Dredging

This item will include all cost to clear and grub the:

1. channel right of way
2. access right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

USR PM Clearing w/D-6,F	20.00	AC	CLEARING2	0.10	1373.60 27,472	921.40 18,428	0.00 0	0.00 0	2295.00 45,900	2295.00 2295.00
USR PM Grubbing w/ Cat	20.00	AC	GRUBBING1	0.10	1040.19 20,804	1257.90 25,158	0.00 0	0.00 0	2298.09 45,962	2298.09 2298.09
USR PM safety & misc	1.00	LS		0.00	0.00 0	0.00 0	0.00 0	2538.20 2,538	2538.20 2,538	2538.20 2538.20
Clearing for Cha	20.00	AC			48,276	43,586	0	2,538	94,400	4720.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 105

E. Ward Creek

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09011502 02. Excavation										
A backhoe will excavate material and load into awaiting trucks. The material will be hauled to Mississippi River batture located near the intersection of Gardere Ln and River Road. A dozer will be used full time at the excavation site.										
The equipment will work from the base of the channel. See construction access item for details relating to the construction access.										
USR PM safety & misc	1.00	LS		0.00	0.00	0.00	0.00	24544.60	24544.60	
				0	0	0	0	24,545	24,545	24544.60
USR PM all other operat	1.00	LS		0.00	0.00	6907.00	0.00	0.00	6907.00	
				0	6,907	0	0	0	6,907	6907.00
USR PM small tools	1.00	LS		0.00	0.00	9851.00	0.00	0.00	9851.00	
				0	9,851	0	0	0	9,851	9851.00
USR PM haul roads (10%)	1.00	LS		0.00	0.00	0.00	0.00	57200.00	57200.00	
				0	0	0	0	57,200	57,200	57200.00
USR PM BACKHOE CAT 225B	681.00	HR	BKHB	1.00	0.00	36.92	0.00	0.00	36.92	
				0	25,143	0	0	0	25,143	36.92
USR PM DOZER D-6 W/BLAD	681.00	HR	DOZB	1.00	0.00	32.01	0.00	0.00	32.01	
				0	21,799	0	0	0	21,799	32.01
USR PM Dump truck, 12 c	12939	HR	TRKI	1.00	0.00	22.00	0.00	0.00	22.00	
				0	284,658	0	0	0	284,658	22.00
USR PM WATER TRUCK 2000	340.50	HR	TRKA	1.00	0.00	16.02	0.00	0.00	16.02	
				0	5,455	0	0	0	5,455	16.02
USR PM MOTOR GRADER CAT	340.50	HR	MOTG	1.00	0.00	24.29	0.00	0.00	24.29	
				0	8,271	0	0	0	8,271	24.29
USR PM OILER	681.00	HR	OILM	1.00	16.50	0.00	0.00	0.00	16.50	
				11,238	0	0	0	0	11,238	16.50
USR PM TRUCK DRIVER	12939	HR	TRKM	1.00	17.50	0.00	0.00	0.00	17.50	
				226,433	0	0	0	0	226,433	17.50
USR PM PEO-backhoe	681.00	HR	PEOM	1.00	25.84	0.00	0.00	0.00	25.84	
				17,597	0	0	0	0	17,597	25.84
USR PM PEO-dozer	681.00	HR	PEOM	1.00	25.84	0.00	0.00	0.00	25.84	
				17,597	0	0	0	0	17,597	25.84
USR PM PEO-motor grader	340.50	HR	PEOM	1.00	25.84	0.00	0.00	0.00	25.84	
				8,798	0	0	0	0	8,798	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16-01

DETAILED ESTIMATE

DETAIL PAGE 106

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50
	340.50	HR	TRKM	1.00	5,959	0	0	0	5,959 17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67
	681.00	HR	LABM	1.00	11,352	0	0	0	11,352 16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67
	681.00	HR	LABM	1.00	11,352	0	0	0	11,352 16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50
	681.00	HR	FOREMAN3	1.00	18,047	0	0	0	18,047 26.50
Excavation	143000	CY			328,373	362,083	0	81,745	772,200 5.40

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 107

E 09. Channels and Canals	QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09011502 03. Clearing and Snagging											
This item will include all cost to clear and snag the:											
1. channel right of way											
Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.											
Some areas will have to be cleared so that access will be allowed for the excavator.											
USR PM Clearing w/ D-6,						1206.89	906.70	0.00	-0.06	2113.53	
13.00 AC	CLEARING1		0.10		15,690	11,787	0	0	-1	27,476	2113.53
USR PM Snagging w/ 235,						6034.47	6372.00	0.00	0.00	12406.47	
13.00 MI	SNAGGING1		0.02		78,448	82,836	0	0	0	161,284	12406.47
USR PM safety & misc						0.00	0.00	0.00	8840.00	8840.00	
1.00 LS			0.00		0	0	0	0	8,840	8,840	8840.00
Clearing and Sna	13.00 MI					94,138	94,623	0	8,839	197,600	15200.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE T08

E 09. Channels and Canals	QUANTY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09013002 01. sand (8" thick)											
This item will include all cost to place material such that the design template for the concrete slope pavement will be filled. A backhoe will load the material into the haul trucks. The trucks will dump material and a dozer will spread and shape the material. The sand blanket will be placed under the 6" concrete.											
ASSUMPTIONS:											
1. Sand is available for borrow in the vicinity of Gardere Rd. and the Mississippi River. It is assumed to be pumped from the river.											
USR PM safety & misc	1.00	LS			0.00	0.98	0.08	0.00	4952.00	4953.06	
						1	0	0	4,952	4,953	4953.06
USR PM all other operat	1.00	LS			0.00	0.00	829.00	0.00	0.00	829.00	
						0	829	0	0	829	829.00
USR PM small tools	1.00	LS			0.00	0.00	1134.00	0.00	0.00	1134.00	
						0	1,134	0	0	1,134	1134.00
USR PM sand material	13200	CY			0.00	0.00	0.00	0.00	1.25	1.25	
						0	0	0	16,500	16,500	1.25
USR PM haul roads (10%)	1.00	LS			0.00	0.00	0.00	0.00	8213.00	8213.00	
						0	0	0	8,213	8,213	8213.00
USR PM BACKHOE CAT 225B	63.00	HR	BKHB		1.00	0.00	36.92	0.00	0.00	36.92	
						0	2,326	0	0	2,326	36.92
USR PM DOZER D-6 W/BLAD	94.50	HR	DOZB		1.00	0.00	32.01	0.00	0.00	32.01	
						0	3,025	0	0	3,025	32.01
USR PM DUMP TRUCK 12 C	1575.00	HR	TRKE		1.00	0.00	22.11	0.00	0.00	22.11	
						0	34,823	0	0	34,823	22.11
USR PM WATER TRUCK 2000	31.50	HR	TRKA		1.00	0.00	16.02	0.00	0.00	16.02	
						0	505	0	0	505	16.02
USR PM MOTOR GRADER CAT	31.50	HR	MOTG		1.00	0.00	24.29	0.00	0.00	24.29	
						0	765	0	0	765	24.29
USR PM OILER	63.00	HR	OILM		1.00	16.50	0.00	0.00	0.00	16.50	
						1,040	0	0	0	1,040	16.50
USR PM TRUCK DRIVER	1575.00	HR	TRKM		1.00	17.50	0.00	0.00	0.00	17.50	
						27,563	0	0	0	27,563	17.50
USR PM PEO-backhoe	63.00	HR	PEOM		1.00	25.84	0.00	0.00	0.00	25.84	
						1,628	0	0	0	1,628	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBRO01: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 109

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer	94.50	HR	PEOM	1.00	25.84 2,442	0.00 0	0.00 0	0.00 0	25.84 2,442	25.84
USR PM PEO-motor grader	31.50	HR	PEOM	1.00	25.84 814	0.00 0	0.00 0	0.00 0	25.84 814	25.84
USR PM TRUCK DRIVER - w	31.50	HR	TRKM	1.00	17.50 551	0.00 0	0.00 0	0.00 0	17.50 551	17.50
USR PM LABORER	63.00	HR	LABM	1.00	16.67 1,050	0.00 0	0.00 0	0.00 0	16.67 1,050	16.67
USR PM flagmen	63.00	HR	LABM	1.00	16.67 1,050	0.00 0	0.00 0	0.00 0	16.67 1,050	16.67
USR PM foreman 3 \$26.5	63.00	HR	FOREMAN3	1.00	26.50 1,670	0.00 0	0.00 0	0.00 0	26.50 1,670	26.50
sand (8" thick)	13200	CY			37,808	43,407	0	29,665	110,880	8.40

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 110

E. Ward Creek

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

E 09013002 02. Filter Drain Fabric									
This item will include cost to do the following work:									
Once the section is at grade, the liner will be laid out. A cherry picker will assist several laborers. The liner will be placed below the area which will be covered by 6" and 8" concrete.									
USR PM cherry picker, p					0.42	0.19	0.00	0.00	0.61
59300 SY	CHYPK1		140.00	25,067	11,140	0	0	36,207	0.61
USR PM drainage composi					0.00	0.00	5.35	0.00	5.35
59300 SY			0.00	0	0	317,018	0	317,018	5.35
USR PM safety & misc					25.00	11.00	0.00	2539.45	2575.45
1.00 LS			0.00	25	11	0	2,539	2,575	2575.45
Filter Drain Fab	59300 SY				25,092	11,151	317,018	2,539	355,800 6.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 111

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09013002 03. Fuseplug Dams										
This item will include cost to do the following work:										
Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.										
total length of all work: 5,600 LF Quantity: 5,600 lf / 2,000 lf/dam = 2.8 dams 2.8 dams * 8(replacement factor) = 24 dams										
Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss => approx. 40 cy/dam; 24 dams * 40 cy/dam = 960 cy										
Estimated time: 1 dam per day										
USR PM construct dams	960.00	CY	BKH002	4.00	6,202	8,861	0	0	15,062	15.69
USR PM culvert	4.00	EA		0.00	0	0	4,320	0	4,320	1080.00
USR PM breaching dams	15.00	EA		0.00	0	0	0	6,000	6,000	400.00
USR PM safety & misc	1.00	LS		0.00	0	0	0	6,617	6,618	6617.67
Fuseplug Dams					6,202	8,861	4,320	12,617	32,000	

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
E. Ward Creek

DETAILED ESTIMATE

DETAIL PAGE 2

E 09. Channels and Canals		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09013003 01. Cutoff wall											
This item is for all labor, equipment, and materials required to construct concrete cutoff walls in the channel wall pavement.											
Reference: Jones Creek - cutoff wall											
USR PM cutoff wall						0.00	0.00	0.00	120.00	120.00	
	400.00 CY				0.00	0	0	0	48,000	48,000	120.00
Cutoff wall	400.00 CY					0	0	0	48,000	48,000	120.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 113

E 09. Channels and Canals	QUANTITY	UOM	CREW	ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST

E 09013003 02. Channel Wall Pavement (4")											
This item is for all labor, equipment, and materials required to construct											
4" concrete channel wall pavement.											
Reference: Bayou Fountain - 4" channel pavement											
USR PM 4" channel wall						0.00	0.00	0.00	104.00	104.00	
	8800.00	CY			0.00	0	0	0	915,200	915,200	104.00
						-----	-----	-----	-----	-----	
Channel Wall Pav	8800.00	CY				0	0	0	915,200	915,200	104.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 1.4

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST UNIT COST

E 09013003 03. Channel Wall Pavement (6")									
This item is for all labor, equipment, and materials required to construct 6" concrete channel wall pavement.									
Reference: Bayou Fountain - 6" channel wall pavement									
USR PM 6" channel wall					0.00	0.00	0.00	120.00	120.00
	6600.00	CY		0.00	0	0	0	792,000	792,000 120.00

Channel Wall Pav	6600.00	CY			0	0	0	792,000	792,000 120.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 115

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09013003 04. Channel Wall Pavement (8")

This item is for all labor, equipment, and materials required to construct
8" concrete channel wall pavement.

Reference: Bayou Fountain - 8" channel wall pavement

USR PM 8" channel wall				0.00	0.00	0.00	120.00	120.00		
4500.00 CY	0.00	0	0	0	540,000	540,000	120.00			
Channel Wall Pav 4500.00 CY				0	0	0	540,000	540,000	120.00	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 116

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09013003 05. drain ditch

This item is for all labor, equipment, and materials to construct concrete drainage ditches along each side of the new paved creek channel.

The details are the same as 4" Channel wall pavement.

USR PM concrete paved d					0.00	0.00	0.00	104.00	104.00	
This item is the same as 4" channel wall pavement.				0.00	0	0	0	228,800	228,800	104.00
drain ditch	2200.00	CY			0	0	0	228,800	228,800	104.00

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 117

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09019902 01. excavation										
A backhoe will excavate material and load into awaiting trucks. The material will be hauled to the Mississippi River batture. A dozer will be used full time at the excavation site.										
The equipment will work from the base of the channel. See Construction Access Item for details relating the construction access.										
Material is expected to have a higher water content than the bulk of the excavation material which is above the bottom foot of the channel.										
USR PM safety & misc	1.00	LS		0.00	0	0	0	993	993	993.29
USR PM all other operat	1.00	LS		0.00	0	335	0	0	335	335.00
USR PM small tools	1.00	LS		0.00	0	490	0	0	490	490.00
USR PM haul roads (10%)	1.00	LS		0.00	0	0	0	2,792	2,792	2792.20
USR PM BACKHOE CAT 225B	38.00	HR	BKHB	1.00	0	1,403	0	0	1,403	36.92
USR PM DOZER D-6 W/BLAD	38.00	HR	DOZB	1.00	0	1,216	0	0	1,216	32.01
USR PM Dump truck, 12 c	608.00	HR	TRKI	1.00	0	13,376	0	0	13,376	22.00
USR PM WATER TRUCK 2000	19.00	HR	TRKA	1.00	0	304	0	0	304	16.02
USR PM MOTOR GRADER CAT	19.00	HR	MOTG	1.00	0	462	0	0	462	24.29
USR PM OILER	38.00	HR	OILM	1.00	627	0	0	0	627	16.50
USR PM TRUCK DRIVER	608.00	HR	TRKM	1.00	10,640	0	0	0	10,640	17.50
USR PM PEO-backhoe	38.00	HR	PEOM	1.00	982	0	0	0	982	25.84
USR PM PEO-dozer	38.00	HR	PEOM	1.00	982	0	0	0	982	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 18

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	19.00	HR	PEOM	1.00	491	0	0	0	491	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	19.00	HR	TRKM	1.00	333	0	0	0	333	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	38.00	HR	LABM	1.00	633	0	0	0	633	16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67	
	38.00	HR	LABM	1.00	633	0	0	0	633	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	38.00	HR	FOREMAN3	1.00	1,007	0	0	0	1,007	26.50
excavation	6500.00	CY			16,328	17,586	0	3,785	37,700	5.80

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 119

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09019902 02. Filter Fabric

This item will include cost to do the following work:

Once the cation is at grade, the fabric will be laid out. A cherry picker will assist several laborers. The fabric will be placed on the bottom width of the cross section. Crushed stone will be placed on the fabric. Once this is done, heavy equipment will be able to move in and out of the creek.

Assumption: The creek is blocked upstream during a period of no rainfall.

USR PM Turf reinforcement	19400 SY	CHYPK1	140.00	0.42	0.19	0.00	0.00	0.61		
				8,201	3,644	0	0	11,845	0.61	
USR PM filter fabric	19400 SY		0.00	0.00	0.00	1.89	0.00	1.89		
				0	0	36,666	0	36,666	1.89	
USR PM safety & misc	1.00 LS		0.00	25.00	12.00	0.00	5772.00	5809.00		
				25	12	0	5,772	5,809	5809.00	
Filter Fabric	19400 SY			8,226	3,656	36,666	5,772	54,320	2.80	

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 120

E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09019902 03. Crushed stone										
The filter fabric will be laid out once the channel is cut to grade. Channel excavation is expected to begin at available access sites and continue upstream. The fabric will be covered by a layer of 1 ft of stone. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the area as dry as possible.										
This item will include costs to furnish and place the stone and provision for a railroad spur which is required for offloading the rock. The nearest location is in the vicinity of Denham Springs. The rock will be offloaded by backhoes into trucks. The trucks will dump the material within the section. A dozer will spread and compact the stone.										
measured quantity: 9,000 tons										
**** USE 9,500 tons due to loss incurred by rainfall events during construction.										
USR PM safety & misc	1.00	LS		0.00	0	0	0	7,483	7,483	7,483.00
USR PM all other operat	1.00	LS		0.00	0	411	0	0	411	411.00
USR PM small tools	1.00	LS		0.00	0	568	0	0	568	568.00
USR PM deliver charge t	9500.00	TON		0.00	0	0	0	66,500	66,500	7.00
USR PM rail spur	1.00	LS		0.00	0	0	0	25,000	25,000	25000.00
USR PM stone	9500.00	TON		0.00	0	0	33,345	0	33,345	3.51
USR PM BACKHOE, HITACHI	53.00	HR	BKHI	1.00	0	1,367	0	0	1,367	25.79
USR PM DOZER D-6 W/BLAD	53.00	HR	DOZB	1.00	0	1,697	0	0	1,697	32.01
USR PM Dump truck, 12 c	795.00	HR	TRKI	1.00	0	17,490	0	0	17,490	22.00
USR PM TRUCK DRIVER	795.00	HR	TRKM	1.00	13,913	0	0	0	13,913	17.50
USR PM PEO-backhoe	53.00	HR	PEOM	1.00	1,370	0	0	0	1,370	25.84

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E. Ward Creek

TIME 10:16:01

DETAILED ESTIMATE

DETAIL PAGE 121

E 09. Channels and Canals									
QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84	
53.00 HR	PEOM		1.00	1,370	0	0	0	1,370	25.84
USR PM LABORER				16.67	0.00	0.00	0.00	16.67	
53.00 HR	LABM		1.00	884	0	0	0	884	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	26.50	
53.00 HR	FOREMAN3		1.00	1,405	0	0	0	1,405	26.50
Crushed stone	9000.00 TON			18,940	21,532	33,345	98,983	172,800	19.20

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

DETAILED ESTIMATE

East Baton Rouge Parish Feasibility Study

DETAIL PAGE 122

E. Ward Creek

E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09019902 04. Obstruction Removal										
Initially, the backhoe will pile broken concrete along the side. Once it is all stacked, the backhoe will then load 12 cy trucks. The temporary road build at the base of the channel will allow the concrete to be picked up. The material will be hauled to Devil's Swamp. A dozer will be used full time at the obstruction site and 50% of the time at the disposal site.										
The equipment will work from the base of the channel.										
Assumption: 4.5 sf x 150 lb/cf x 5600 lf / 2000 lbs = 1,890 tons of concrete										
USR PM safety & misc	1.00	LS		0.00	0.60	0.00	0.00	2281.84	2282.44	
					1	0	0	2,282	2,282	2282.44
USR PM all other operat	1.00	LS		0.00	0.00	373.00	0.00	0.00	373.00	
					0	373	0	0	373	373.00
USR PM small tools	1.00	LS		0.00	0.00	588.00	0.00	0.00	588.00	
					0	588	0	0	588	588.00
USR PM haul roads (10%)	1.00	LS		0.00	0.00	0.00	0.00	3318.00	3318.00	
					0	0	0	3,318	3,318	3318.00
USR PM BACKHOE CAT 225B	63.00	HR	BKHB	1.00	0.00	36.92	0.00	0.00	36.92	
					0	2,326	0	0	2,326	36.92
USR PM PEO-backhoe	63.00	HR	PEOM	1.00	25.84	0.00	0.00	0.00	25.84	
					1,628	0	0	0	1,628	25.84
USR PM BACKHOE CAT 225B	63.00	HR	BKHB	1.00	0.00	36.92	0.00	0.00	36.92	
					0	2,326	0	0	2,326	36.92
USR PM DOZER D-6 W/BLAD	94.50	HR	DOZB	1.00	0.00	32.01	0.00	0.00	32.01	
					0	3,025	0	0	3,025	32.01
USR PM Dump truck, 12 c	441.00	HR	TRKI	1.00	0.00	22.00	0.00	0.00	22.00	
					0	9,702	0	0	9,702	22.00
USR PM WATER TRUCK 2000	31.50	HR	TRKA	1.00	0.00	16.02	0.00	0.00	16.02	
					0	505	0	0	505	16.02
USR PM MOTOR GRADER CAT	31.50	HR	MOTG	1.00	0.00	24.29	0.00	0.00	24.29	
					0	765	0	0	765	24.29
USR PM OILER	63.00	HR	OILM	1.00	16.50	0.00	0.00	0.00	16.50	
					1,040	0	0	0	1,040	16.50
USR PM TRUCK DRIVER	441.00	HR	TRKM	1.00	17.50	0.00	0.00	0.00	17.50	
					7,718	0	0	0	7,718	17.50

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** LABOR BACKUP **

TIME 10:16:01

BACKUP PAGE 1

----- **** TOTAL ****									
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT HOURS

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE

**** TOTAL ****										
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT	HOURS
A 06037102 01. Fencing - barbed wire										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	81
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	81
A 06037302 01. Planting Trees										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	30
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	30
A 09010101 01. Mob & Demob										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	40
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26 HR	01/21/93	0.00	80
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	100
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	280
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	340
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	600
A 09011502 01. Clearing and Snagging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	480
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	4
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	14
A 09011502 02. Clearing for Channel Dredging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	940
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	940
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	2820
A 09011502 03. Excavation										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	1155
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	2310
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	1155
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	2888
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	10973
A 09013002 01. Filter Drain Fabric										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	92
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	46
A 09013002 02. sand (8" thick)										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	1
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	2
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	1
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	3
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	10
A 09013002 03. riprap 16" - dry placement										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	1
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	2
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	20
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	20
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	50

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 3

										**** TOTAL
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT	HOURS
A 09013003 01. 1 FT U-frame Base Slab										
A 09013003 02. 1 FT U-frame wall										
A 09013003 03. Channel Wall Pavement (4")										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	1
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26 HR	01/21/93	0.00	16
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	2
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	9
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	28
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	12
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	1
A 09013003 04. Channel Wall Pavement (6")										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	2
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26 HR	01/21/93	0.00	27
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	2
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	9
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	46
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	8
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	1
A 09013003 05. Channel Wall Pavement (8")										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	2
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26 HR	01/21/93	0.00	38
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	3
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	10
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	64
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	12
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	1
A 09019905 01. Fence (chain link)										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	18
A 09019906 01. Aesthetic Tree Planting										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	35
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	140
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	35
A 09019906 02. Aesthetic Shrub Planting										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	59
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	235
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	59
B 06037102 01. Fencing - barbed wire										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	378
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	378
B 06037302 01. Planting Trees										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	139
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	139

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 4

										**** TOTAL ****	
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	HOURS
B 09010101 01. Mob & Demob											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	200
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	400
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	500
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	100
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1600
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1800
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	3100
B 09011502 01. Clearing for Channel Dredging											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2720
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	2720
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	8160
B 09011502 02. Degrading, hauling, shaping 16mi											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2377
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	4754
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	1321
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	6726
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	14
B 09011502 03. Clearing and Snagging											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	180
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	180
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	540
B 09013002 01. sand (8" thick)											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	400
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	800
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	400
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1200
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	12600
B 09013002 02. Filter Drain Fabric											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	5981
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	2991
B 09013002 03. Fuseplug Dams											
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	900
B 09013003 01. Cutoff Wall											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	4506
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	1916
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	192
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1916
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	33
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	
B 09013003 02. Channel Wall Pavement (4")											
B 09013003 03. Channel Wall Pavement (6")											
B 09013003 04. Channel Wall Pavement (8")											

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** LABOR BACKUP - LEVEL 6 **

TIME 10:16:03

BACKUP PAGE 5

										**** TOTAL ****
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT	HOURS
B 09013003 05. drain ditch										
B 09019905 01. Fence (chain link)										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	10260
B 09019906 01. Aesthetic Tree Planting										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	60
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	240
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	60
B 09019906 02. Aesthetic Shrub Planting										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	100
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	400
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	100
B 14002202 02. Bridge - 10' x 50'										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	10
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	20
B 14002202 03. Bridge - 10' x 150'										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	10
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	20
B 14002202 04. Signs & Markers										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	10
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	10
B 14002202 05. Trees										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	148
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	591
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	148
B 14002202 06. Fence (6' Wooden)										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	2100
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	4900
C 06037102 01. Fencing - barbed wire										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	419
USR PEOTRATOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	419
C 06037302 01. Planting Trees										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	154
USR PEOTRATOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	154
C 09010101 01. Mob & Demob										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	100
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26 HR	01/21/93	0.00	200
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	200
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	50
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	800

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 7

									**** TOTAL ****	
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT	HOURS
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	700
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	1450
C 09011502 01. Clearing for Channel Dredging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	4400
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	4400
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	13200
C 09011502 02. Excavation										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	2172
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	4344
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	2172
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	6516
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	46698
C 09013002 01. Geotextile Mat Turf Reinforcemnt										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	1090
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	5451
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	1090
C 09013002 02. R-90 Stone										
USR DOPM	PEO DRAGLINE	14.81	16.7%	40.0%	2.63	0.00	26.82 HR	01/21/93	0.00	579
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	579
USR FOREMAN4	foreman 4 \$27.00/hr	27.00	0.0%	0.0%	0.00	0.00	27.00 HR	01/21/93	0.00	579
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	1157
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	579
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	1157
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	7523
C 09013002 03. Hydromulch										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	716
C 09013002 04. Excavation for stone										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	362
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	724
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	362
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	1086
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	7783
C 09013002 05. Fuseplug Dams										
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	650
C 09019906 01. Aesthetic Tree Planting										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	150
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	600
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	150
D 06037102 01. Fencing - barbed wire										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	365
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	365

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 7

**** TOTAL ****									
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT HOURS
D 06037302 01. Planting Trees									
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 134
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00 134
D 09010101 01. Mob & Demob									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 240
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 420
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 660
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00 840
D 09011502 01. Clearing for Channel Dredging									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 3280
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 3280
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 9840
D 09011502 02. Excavation									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 1991
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 3982
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00 1991
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 5973
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00 28870
D 09013002 01. Geotextile Mat Turf Reinforcement									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 1774
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 8870
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 1774
D 09013002 02. R-90 Stone									
USR DOPM	PEO DRAGLINE	14.81	16.7%	40.0%	2.63	0.00	26.82 HR	01/21/93	0.00 612
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 612
USR FOREMAN4	foreman 4 \$27.00/hr	27.00	0.0%	0.0%	0.00	0.00	27.00 HR	01/21/93	0.00 612
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 1225
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00 612
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 1225
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00 9799
D 09013002 03. Hydromulch									
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 1226
D 09013002 04. Excavation for stone									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 544
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00 1088
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00 544
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 1632
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00 7888
D 09013002 05. Fuseplug Dams									
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00 850
D 09019906 01. Aesthetic Tree Planting									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00 190

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 6

										**** TOTAL ****
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	HOURS
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	760
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	190
E 06037102 01. Fencing - barbed wire										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	108
USR PEOTRATOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	108
E 06037302 01. Planting Trees										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	40
USR PEOTRATOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	40
E 09010101 01. Mob & Demob										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	60
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	120
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	150
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	30
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	480
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	540
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	750
E 09011502 01. Clearing for Channel Dredging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	400
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	400
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	1200
E 09011502 02. Excavation										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	681
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	1362
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	681
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	1703
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	13280
E 09011502 03. Clearing and Snagging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	780
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	780
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	2340
E 09013002 01. sand (8" thick)										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	63
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	126
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	63
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	189
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	1607
E 09013002 02. Filter Drain Fabric										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	847
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	
E 09013002 03. Fuseplug Dams										
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	240

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** LABOR BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 9

**** TOTAL ****										
SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT	HOURS
<hr/>										
E 09013003 01.	Cutoff wall									
E 09013003 02.	Channel Wall Pavement (4")									
E 09013003 03.	Channel Wall Pavement (6")									
E 09013003 04.	Channel Wall Pavement (8")									
E 09013003 05.	drain ditch									
E 09019902 01.	excavation									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	38
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	76
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	38
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	95
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	627
<hr/>										
E 09019902 02.	Filter Fabric									
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	277
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	139
<hr/>										
E 09019902 03.	Crushed stone									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	53
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	53
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	106
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	795
<hr/>										
E 09019902 04.	Obstruction Removal									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	63
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	126
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	63
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	252
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	473
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E 09019905 01.	Fence (chain link)									
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	672
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E 09019906 01.	Aesthetic Tree Planting									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	22
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	87
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	22
<hr/>										
E 09019906 02.	Aesthetic Shrub Planting									
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	37
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	147
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	37

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** EQUIPMENT BACKUP **

TIME 10:16:01

BACKUP PAGE 10

SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ	REP	TR	WR	TR	REP	TOTAL UOM	HOURS
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Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 11

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
A 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	81
A 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	30
A 09010101 01. Mob & Demob										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	20
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	20
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	20
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	20
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	40
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	20
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	20
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	20
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	40
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	20
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	60
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	20
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	20
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	20
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	20
USR TRAC	FARM TRACTOR W/DISC J.D. 2355	1.94		1.89		2.29			6.12 HR	20
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	20
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	420
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	180
A 09011502 01. Clearing and Snagging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	400
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	480
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	80
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	480
USR SAWB	CHAIN SAW - Homelite - 31" bar	0.15		0.32		1.00			1.47 HR	480
A 09011502 02. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	470
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	940
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	940
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	940
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	470
A 09011502 03. Excavation										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1155
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	1155
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	578
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	578
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	10395
A 09013002 01. Filter Drain Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	46

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 72

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
A 09013002 02. sand (8" thick)										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	1
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	2
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	1
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
USR TRKE	DUMP TRUCK 12 CY	6.39		7.53		8.19			22.11 HR	9
A 09013002 03. riprap 16" - dry placement										
USR BOX1	rock box/hopper - 25T capacity	4.00							4.00 HR	10
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	20
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	50
A 09013003 01. 1 FT U-frame Base Slab										
A 09013003 02. 1 FT U-frame wall										
A 09013003 03. Channel Wall Pavement (4")										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	2
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	1
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	3
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	3
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	
USR SNDB	SANDBLASTER, 1400#,HOSE,216CFM	2.46				4.03			6.49 HR	1
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	3
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
A 09013003 04. Channel Wall Pavement (6")										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	2
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	1
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	4
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	2
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	4
USR SNDB	SANDBLASTER, 1400#,HOSE,216CFM	2.46				4.03			6.49 HR	1
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	2
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
A 09013003 05. Channel Wall Pavement (8")										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	3
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	1
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	5
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	3
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	5
USR SNDB	SANDBLASTER, 1400#,HOSE,216CFM	2.46				4.03			6.49 HR	1
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	4
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
A 09019905 01. Fence (chain link)										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	6
A 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	35

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 13

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
A 09019906 02. Aesthetic Shrub Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	59
B 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	378
B 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	139
B 09010101 01. Mob & Demob										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	100
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	200
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	100
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	100
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	200
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	100
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	100
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	100
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	100
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	500
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	100
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	100
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	100
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	100
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	100
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	100
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	3100
B 09011502 01. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1360
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	2720
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	2720
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	2720
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	1360
B 09011502 02. Degradng, hauling, shaping 16mi										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	1321
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	3698
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	1717
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	661
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	14159
B 09011502 03. Clearing and Snagging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	150
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	180
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	30
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	180
USR SAWB	CHAIN SAW - Homelite - 31" bar	0.15		0.32		1.00			1.47 HR	180
B 09013002 01. sand (8" thick)										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	400

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16-AM

BACKUP PAGE 14

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
USR DO2B	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	600
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	200
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	200
USR TRKE	DUMP TRUCK 12 CY	6.39		7.53		8.19			22.11 HR	12400
B 09013002 02. Filter Drain Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	2991
B 09013002 03. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	900
B 09013003 01. Cutoff Wall										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	96
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	383
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	806
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	192
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	383
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	1690
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	192
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	9
B 09013003 02. Channel Wall Pavement (4")										
B 09013003 03. Channel Wall Pavement (6")										
B 09013003 04. Channel Wall Pavement (8")										
B 09013003 05. drain ditch										
B 09019905 01. Fence (chain link)										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	3420
B 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	60
B 09019906 02. Aesthetic Shrub Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	100
B 14002202 02. Bridge - 10' x 50'										
USR CHYC	CHERRYPICKER GROVE 45 TON	24.07		6.82		21.97			52.86 HR	10
B 14002202 03. Bridge - 10' x 150'										
USR CHYC	CHERRYPICKER GROVE 45 TON	24.07		6.82		21.97			52.86 HR	10
B 14002202 04. Signs & Markers										
B 14002202 05. Trees										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	148
B 14002202 06. Fence (6' Wooden)										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	700
C 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	419
C 06037302 01. Planting Trees										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:00

BACKUP PAGE 115

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	154
C 09010101 01. Mob & Demob										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	50
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	50
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	50
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	50
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	100
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	50
USR CHLT	sealant hot mixer & pump	7.00							7.00 HR	50
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	50
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	50
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	150
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	50
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	50
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	50
USR T3ODW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	50
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	50
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	50
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	1450
C 09011502 01. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	2200
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	4400
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	4400
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	4400
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	2200
C 09011502 02. Excavation										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	2172
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	3258
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	1086
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1086
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	45612
C 09013002 01. Geotextile Mat Turf Reinforcemnt										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	1090
C 09013002 02. R-90 Stone										
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	1157
USR BOX1	rock box/hopper - 25T capacity	4.00							4.00 HR	579
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	579
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	7523
C 09013002 03. Hydromulch										
USR SPRAYER	sprayer, hydromulch	10.00							10.00 HR	716
C 09013002 04. Excavation for stone										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	362
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	543
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	181

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 ** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 16

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	181
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	7602
C 09013002 05. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	650
C 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	150
D 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	365
D 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	134
D 09010101 01. Mob & Demob										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	120
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	60
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	60
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	12
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	60
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	180
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	60
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	60
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	60
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	840
D 09011502 01. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1640
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	3280
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	3280
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	3280
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	1640
D 09011502 02. Excavation										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1991
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	2987
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	996
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	996
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	27874
D 09013002 01. Geotextile Mat Turf Reinforcemnt										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	1774
D 09013002 02. R-90 Stone										
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	1225
USR BOX1	rock box/hopper - 25T capacity	4.00							4.00 HR	61
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	612
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	9799
D 09013002 03. Hydromulch										

Tue 27 Sep 1994

U.S. Army Corps of Engineers

TIME 10:16:01

PROJECT EBR001: East Baton Rouge Psh Feas. - NED

East Baton Rouge Parish Feasibility Study

BACKUP PAGE 17

** EQUIPMENT BACKUP - LEVEL 6 **

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
USR SPRAYER	sprayer, hydromulch	10.00							10.00 HR	1226
D 09013002 04. Excavation for stone										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	544
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	816
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	272
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	272
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	7616
D 09013002 05. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	850
D 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	190
E 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	108
E 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	40
E 09010101 01. Mob & Demob										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	30
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	60
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	30
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	30
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	60
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	30
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	30
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	30
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	30
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	150
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	30
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	30
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	30
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	30
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	30
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	30
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	750
E 09011502 01. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	200
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	400
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	400
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	400
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	200
09011502 02. Excavation										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	681
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	681
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	341

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE

										** TOTAL **
SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	341
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	12939
E 09011502 03. Clearing and Snagging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	650
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	780
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	130
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	780
USR SAWB	CHAIN SAW - Homelite - 31" bar	0.15		0.32		1.00			1.47 HR	780
E 09013002 01. sand (8" thick)										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	63
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	95
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	32
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	32
USR TRKE	DUMP TRUCK 12 CY	6.39		7.53		8.19			22.11 HR	1575
E 09013002 02. Filter Drain Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	424
E 09013002 03. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	240
E 09013003 01. Cutoff wall										
E 09013003 02. Channel Wall Pavement (4")										
E 09013003 03. Channel Wall Pavement (6")										
E 09013003 04. Channel Wall Pavement (8")										
E 09013003 05. drain ditch										
E 09019902 01. excavation										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	38
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	38
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	19
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	19
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	608
E 09019902 02. Filter Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	139
E 09019902 03. Crushed stone										
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	53
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	53
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	795
E 09019902 04. Obstruction Removal										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	126
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	95
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	3
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	32
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	441
E 09019905 01. Fence (chain link)										

Tue 27 Sep 1994

U.S. Army Corps of Engineers
PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study
** EQUIPMENT BACKUP - LEVEL 6 **

TIME 10:16:01

BACKUP PAGE 19

SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	224
E 09019906 01.	Aesthetic Tree Planting									
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	22
E 09019906 02.	Aesthetic Shrub Planting									
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	37

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09011502 03. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 1

A 09011502 03. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
A 09011502 03 Excavation					
					283000.0000 CY
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)					0.0333 HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	5.0000	* Multiply by		MI
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					10.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	4.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0667 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	245.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.4333	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					9.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	245.0000			CY/
PRODRT6 production rate					245.0000 CY/
TIME1 6 total work hours					
excavation quantity	N	(283000.0000	/ Divide by		CY
production rate	W PRODRT6	245.0000)	R Round		CY/

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09011502 03. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 02

A 09011502 03. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
(round UP to whole number)		N	1.0000			FAC
TIMEL 6	total work hours					1155.0000 HRS
TLOADF6	truck load factor					
	load factor	N	0.8000			FAC
TLOADF6	truck load factor					0.8000 FAC
TRKCAP6	truck capacity					
	truck capacity	N	20.0000			CY
TRKCAP6	truck capacity					20.0000 CY
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0667	+ Add to		HR
	haul distance	W HAULD 6 (	10.0000	/ Divide by		MI
	travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
TRKCYC6	truck cycle time					0.4333 HR
TRKHRS6	total truck hours					
	work time	W TIMEL 6	1155.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	9.0000			TRU
TRKHRS6	total truck hours					10395.0000 HR
TRKPAY6	truck payload - CY per cycle					
	truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
	truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
	round number	N	1.0000			CY
TRKPAY6	truck payload - CY per cycle					16.0000 CY
TRKSPD6	truck speed					
	truck speed	N	30.0000			MPH
TRKSPD6	truck speed					30.0000 MPH

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09011502 03. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 3

A 09011502 03. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>						
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
<hr/>						
WKTIME6	work time per hour					0.8300 HR
<hr/>						
EQ1	BACKHOE CAT 235 C 2.0 CY	W TIME1 6	1155.0000 HRS	* Multiply by	1.0000	1155.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	1155.0000 HRS	* Multiply by	1.0000	1155.0000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6	10395.0000 HR	* Multiply by	1.0000	10395.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	1155.0000 HRS	* Multiply by	0.5000	577.5000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	1155.0000 HRS	* Multiply by	0.5000	577.5000 HR
LB1	OILER	A EQ1	1155.0000 HR	* Multiply by	1.0000	1155.0000 HR
LB2	TRUCK DRIVER	A EQ3	10395.0000 HR	* Multiply by	1.0000	10395.0000 HR
LB3	PEO-backhoe	A EQ1	1155.0000 HR	* Multiply by	1.0000	1155.0000 HR
LB4	PEO-dozer	A EQ2	1155.0000 HR	* Multiply by	1.0000	1155.0000 HR
LB6	PEO-motor grader	A EQ5	577.5000 HR	* Multiply by	1.0000	577.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	577.5000 HR	* Multiply by	1.0000	577.5000 HR
LB8	LABORER	W TIME1 6	1155.0000 HRS	* Multiply by	2.0000	2310.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	1155.0000 HRS	* Multiply by	1.0000	1155.0000 HR
<hr/>						
A 09013002 02 sand (8" thick)						160.0000 CY
<hr/>						
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
<hr/>						
DUMPTI6	dump time(in hours)					0.0333 HR
<hr/>						
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	5.0000	* Multiply by		MI
	make round trip	N	2.0000			MI
<hr/>						
HAULD 6	haul distance (round trip)					10.0000 MI
<hr/>						
LOADTI6	load time (in hours)					
	load time (in minutes)	N	4.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
<hr/>						
LOADTI6	load time (in hours)					0.0667*HR
<hr/>						
NTRUCK6	number of trucks needed					
	production rate	W PRODR6 (	120.0000	/ Divide by		CY/

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09013002 02. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

A 09013002 02. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
work time per hour	W WKTIME6 (		0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6		0.4333	* Multiply by		HR
truck payload	W TRKPAY6		8.0000)	* Multiply by		CY
	N		1.0000)	U Round Up		TRU
round UP to whole number	N		1.0000	+ Add to		TRU
add 1 extra truck	N		1.0000			TRU
<hr/>						
NTRUCK6	number of trucks needed					9.0000 TRU
<hr/>						
PRODRT6	production rate					
	production rate (CY/HR)	N	120.0000			CY/
<hr/>						
PRODRT6	production rate					120.0000 CY/
<hr/>						
TIME1 6	total work hours					
	excavation quantity	N (	160.0000	/ Divide by		CY
	production rate	W PRODRT6	120.0000)	R Round		CY
	(round UP to whole number)	N	1.0000			FAC
<hr/>						
TIME1 6	total work hours					1.0000 HRS
<hr/>						
TLOADF6	truck load factor					
	load factor	N	0.6667			FAC
<hr/>						
TLOADF6	truck load factor					0.6667 FAC
<hr/>						
TRKCAP6	truck capacity					
	truck capacity	N	12.0000			CY
<hr/>						
TRKCAP6	truck capacity					12.0000 CY
<hr/>						
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0667	+ Add to		HR
	haul distance	W HAULD 6 (	10.0000	/ Divide by		MI
	travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
<hr/>						
TRKCYC6	truck cycle time					0.4333 HR
<hr/>						
TRKHRS6	total truck hours					

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09013002 02. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 5

A 09013002 02. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
work time		W TIME1 6	1.0000	* Multiply by		HRS
number of trucks needed		W NTRUCK6	9.0000			TRU
TRKHRS6	total truck hours					9.0000 HR
TRKPAY6 truck payload - CY per cycle						
truck capacity		W TRKCAP6 (	12.0000	* Multiply by		CY
truck load factor (80%)		W TLOADF6	0.6667	R Round		FAC
round number		N	1.0000			CY
TRKPAY6	truck payload - CY per cycle					8.0000 CY
TRKSPD6 truck speed						
truck speed		N	30.0000			MPH
TRKSPD6	truck speed					30.0000 MPH
WKTIME6 work time per hour						
time efficiency per hour		N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	1.0000 HRS	* Multiply by	1.5000	1.5000 HR
EQ3	DUMP TRUCK 12 CY	W TRKHRS6	9.0000 HR	* Multiply by	1.0000	9.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	1.0000 HRS	* Multiply by	0.5000	0.5000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	1.0000 HRS	* Multiply by	0.5000	0.5000 HR
LB1	OILER	A EQ1	1.0000 HR	* Multiply by	1.0000	1.0000 HR
LB2	TRUCK DRIVER	A EQ3	9.0000 HR	* Multiply by	1.0000	9.0000 HR
LB3	PEO-backhoe	A EQ1	1.0000 HR	* Multiply by	1.0000	1.0000 HR
LB4	PEO-dozer	A EQ2	1.5000 HR	* Multiply by	1.0000	1.5000 HR
LB6	PEO-motor grader	A EQ5	0.5000 HR	* Multiply by	1.0000	0.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	0.5000 HR	* Multiply by	1.0000	0.5000 HR
LB8	LABORER	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
LB9	flagmen	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
A 09013002 03 riprap 16" - dry placement						890.0000 TON
DUMPTI6 dump time(in hours)						
dump time(in minutes)		N	2.0000	/ Divide by		MIN
minutes per hour		N	60.0000			MIN

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09013002 03. riprap 16" - dry placement
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

A 09013002 03. riprap 16" - dry placamen		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
DUMPTI6	dump time (in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	6.0000	* Multiply by		MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					12.0000 MI
LOADTI6	load time (in hours)					
	load time (in minutes)	N	13.4000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
LOADTI6	load time (in hours)					0.2233 HR
NTRUCK6	number of trucks needed					
	production rate	W PRODRT6 (	90.0000	/ Divide by		CY/
	work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
	truck cycle time	W TRKCYC6	0.7181	* Multiply by		HR
	truck payload	W TRKPAY6	20.0000)	* Multiply by		CY
		N	1.0000)	U Round Up		TRU
	round UP to whole number	N	1.0000	+ Add to		TRU
	add 1 extra truck	N	1.0000			TRU
NTRUCK6	number of trucks needed					5.0000 TRU
PRODRT6	production rate					
	production rate (ton/HR)	N	90.0000			TON
PRODRT6	production rate					90.0000 TON
TIME1 6	total work hours					
	excavation quantity	N (	890.0000	/ Divide by		TON
	production rate	W PRODRT6	90.0000)	R Round		TON
	(round UP to whole number)	N	1.0000			FAC
TIME1 6	total work hours					10.0000 HR
TLOADF6	truck load factor					

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09013002 03. riprap 16" - dry placement
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 7

A 09013002 03. riprap 16" - dry placemen		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
	load factor	N	0.6667			FAC
TLOADF6	truck load factor					0.6667 FAC
TRKCAP6	truck capacity					
	truck capacity	N	30.0000			TON
TRKCAP6	truck capacity					30.0000 TON
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.2233	+ Add to		HR
	haul distance	W HAULD 6 (	12.0000	/ Divide by		MI
	travel speed	W TRKSPD6	26.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
TRKCYC6	truck cycle time					0.7181 HR
TRKHRS6	total truck hours					
	work time	W TIME1 6	10.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	5.0000			TRU
TRKHRS6	total truck hours					50.0000 HR
TRKPAY6	truck payload - tons per cycle					
	truck capacity	W TRKCAP6 (	30.0000	* Multiply by		TON
	truck load factor (80%)	W TLOADF6	0.6667)	R Round		FAC
	round number	N	1.0000			TON
TRKPAY6	truck payload - tons per cycle					20.0000 TON
TRKSPD6	truck speed					
	truck speed	N	26.0000			MPH
TRKSPD6	truck speed					26.0000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 A 09013002 03. riprap 16" - dry placement
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

A 09013002 03. riprap 16" - dry placemen			REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
EQ1	CRANE AMER 5299-A 60T 75' boom	W TIME1 6		10.0000 HRS	* Multiply by	2.0000	20.0000 HR
EQ2	rock box/hopper - 25T capacity	W TIME1 6		10.0000 HRS	* Multiply by	1.0000	10.0000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6		50.0000 HR	* Multiply by	1.0000	50.0000 HR
LB1	OILER	A EQ1		20.0000 HR	* Multiply by	1.0000	20.0000 HR
LB2	TRUCK DRIVER	A EQ3		50.0000 HR	* Multiply by	1.0000	50.0000 HR
LB3	PEO	A EQ1		20.0000 HR	* Multiply by	1.0000	20.0000 HR
LB8	LABORER	W TIME1 6		10.0000 HRS	* Multiply by	1.0000	10.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6		10.0000 HRS	* Multiply by	1.0000	10.0000 HR
A 09013003 02 1 FT U-frame wall							
							100.0000 CY
A 09013003 03 Channel Wall Pavement (4")							
							55.0000 CY
5	conc slope pvmt-grade & pave	P		55.0000 CY	/ Divide by	1.2346	44.5488 SQ
6	conc slope pvmt-backfill	A 1		0.0000 LF	* Multiply by	1.0000	0.0000 LF
9	concrete material + 5% waste	P		55.0000 CY	* Multiply by	1.0500	57.7500 CY
11	expan jnt filler + 3% wste (2/2)	A 10		55.7000 LF	* Multiply by	1.0000	55.7000 LF
12	joint sealer cmpd + 3% waste	A 7		320.1000 LBS	* Multiply by	1.0300	329.7030 LB
13	curing compound	A 5		44.5488 SQ	/ Divide by	2.0000	22.2744 GAL
14	reinforcing mesh + 5% waste	A 4		4454.9000 SF	* Multiply by	1.0500	4677.6450 SF
15	stakes, core drilling	A 5		44.5488 SQ	* Multiply by	1.0000	44.5488 SQ
16	forms, nails, etc	A 3		60.0000 LF	* Multiply by	1.0000	60.0000 LF
A 09013003 04 Channel Wall Pavement (6")							
							43.0000 CY
5	conc slope pvmt-grade & pave-hnd P			43.0000 CY	/ Divide by	1.8519	23.2194 SQ
6	conc slope pvmt-backfill	A 1		0.0000 LF	* Multiply by	1.0000	0.0000 LF
9	concrete (2500 psi) + 5% waste	P		43.0000 CY	* Multiply by	1.0500	45.1500 CY
11	expan jnt filler + 3% wste (2/2)	A 10		74.2000 LF	* Multiply by	1.0000	74.2000 LF
12	joint sealer cmpd + 3% waste	A 7		167.8000 LBS	* Multiply by	1.0300	172.8340 LBS
13	curing compound	A 5		23.2194 SQ	/ Divide by	2.0000	11.6097 GAL
14	reinforcing mesh + 5% waste	A 4		2321.9000 SF	* Multiply by	1.0500	2437.9950 SF
15	stakes, core drilling	A 5		23.2194 SQ	* Multiply by	1.0000	23.2194 SQ
16	forms, nails, etc	A 3		60.0000 LF	* Multiply by	1.0000	60.0000 LF
A 09013003 05 Channel Wall Pavement (8")							
							62.0000 CY
5	conc slope pvmt-grade & pave-hnd P			62.0000 CY	/ Divide by	2.4691	25.1104 SQ
6	conc slope pvmt-backfill	A 1		0.0000 LF	* Multiply by	1.0000	0.0000 LF
9	concrete (2500 psi) + 5% waste	P		62.0000 CY	* Multiply by	1.0500	65.1000 CY
11	expan jnt filler + 3% wste (2/2)	A 10		32.3000 LF	* Multiply by	1.0000	32.3000 LF
12	joint sealer cmpd + 3% waste	A 7		338.8000 LBS	* Multiply by	1.0300	348.9640 LB
13	curing compound	A 5		25.1104 SQ	/ Divide by	2.0000	12.5552 GAL
14	reinforcing mesh + 5% waste	A 4		2511.0000 SF	* Multiply by	1.0500	2636.5500 SF
15	stakes, core drilling	A 5		25.1104 SQ	* Multiply by	1.0000	25.1104 SQ
16	forms, nails, etc	A 3		60.0000 LF	* Multiply by	1.0000	60.0000 LF

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B 09011502 02. Degrading, hauling, shaping 16mi
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 9

B 09011502 02. Degrading, hauling, shaping	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
B 09011502 02 Degrading, hauling, shaping 16mi					162000.0000 CY
DUMPTI6	dump time(in hours)				
	dump time(in minutes)	N	1.0000	/ Divide by	MIN
	minutes per hour	N	60.0000		MIN
<hr/>					
DUMPTI6	dump time(in hours)				0.0167 HR
HAULD 6	haul distance (round trip)				
	haul distance (1 way)	N	2.0000	* Multiply by	MI
	make round trip	N	2.0000		MI
<hr/>					
HAULD 6	haul distance (round trip)				4.0000 MI
LOADTI6	load time (in hours)				
	load time (in minutes)	N	5.4000	/ Divide by	MIN
	minutes per hour	N	60.0000		MIN
<hr/>					
LOADTI6	load time (in hours)				0.0900 HR
NTRUCK6	number of trucks needed				
	production rate	W PRODRT6 (	100.0000	/ Divide by	CY/
	work time per hour	W WKTIME6 (	0.8300	/ Divide by	HR
	truck cycle time	W TRKCYC6	0.3067	* Multiply by	HR
	truck payload	W TRKPAY6	9.0000)	* Multiply by	CY
		N	1.0000)	U Round Up	TRU
	round UP to whole number	N	1.0000	+ Add to	TRU
	add 1 extra truck	N	1.0000		TRU
<hr/>					
NTRUCK6	number of trucks needed				6.0000 TRU
PRODRT6	production rate				
	production rate (CY/HR)	N	100.0000		CY/
<hr/>					
PRODRT6	production rate				100.0000 CY/
TIME1 6	total work hours				
	excavation quantity	N	(105000.0000	/ Divide by	CY
	production rate	W PRODRT6	100.0000)	R Round	CY/

LABOR ID: EBR001 EQUIP ID: EBR001

Currency in DOLLARS

CREW ID: EBR001 UPB ID: EBR001

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B 09011502 02. Degrading, hauling, shaping 16mi
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

B 09011502 02. Degrading, hauling, shapi	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
	(round UP to whole number)	N	1.0000		FAC
<hr/>					
TIME1 6	total work hours				1050.0000 HRS
<hr/>					
TLOADF6	truck load factor				
	load factor	N	0.7500		FAC
<hr/>					
TLOADF6	truck load factor				0.7500 FAC
<hr/>					
TRKCAP6	truck capacity				
	truck capacity	N	12.0000		CY
<hr/>					
TRKCAP6	truck capacity				12.0000 CY
<hr/>					
TRKCYC6	truck cycle time				
	truck load time	W LOADTI6	0.0900	+ Add to	HR
	haul distance	W HAULD 6 (	4.0000	/ Divide by	MI
	travel speed	W TRKSPD6	20.0000)	+ Add to	MPH
	dump time	W DUMPTI6	0.0167		HR
<hr/>					
TRKCYC6	truck cycle time				0.3067 HR
<hr/>					
TRKHRS6	total truck hours				
	work time	W TIME1 6	1050.0000	* Multiply by	HRS
	number of trucks needed	W NTRUCK6	6.0000		TRU
<hr/>					
TRKHRS6	total truck hours				6300.0000 HR
<hr/>					
TRKPAY6	truck payload - CY per cycle				
	truck capacity	W TRKCAP6 (	12.0000	* Multiply by	CY
	truck load factor (75%)	W TLOADF6	0.7500)	R Round	FAC
	round number	N	1.0000		CY
<hr/>					
TRKPAY6	truck payload - CY per cycle				9.0000 CY
<hr/>					
TRKSPD6	truck speed				
	truck speed	N	20.0000		MPH
<hr/>					
TRKSPD6	truck speed				20.0000 MPH

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B 09011502 02. Degradng, hauling, shaping 16mi
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 11

B 09011502 02. Degradng, hauling, shapi		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>						
WKTME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
<hr/>						
WKTME6	work time per hour					0.8300 HR
<hr/>						
1EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	1050.0000 HRS	* Multiply by	1.0000	1050.0000 HR
1EQ2	DOZER D-6 W/BLADE	W TIME1 6	1050.0000 HRS	* Multiply by	2.0000	2100.0000 HR
1EQ3	Dump truck, 12 cy, own-op	W TRKHRS6	6300.0000 HR	* Multiply by	1.0000	6300.0000 HR
1EQ4	WATER TRUCK 2000 GAL	W TIME1 6	1050.0000 HRS	* Multiply by	0.5000	525.0000 HR
1EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	1050.0000 HRS	* Multiply by	0.5000	525.0000 HR
1LB1	OILER	A 1EQ1	1050.0000 HR	* Multiply by	1.0000	1050.0000 HR
1LB2	TRUCK DRIVER	A 1EQ3	6300.0000 HR	* Multiply by	1.0000	6300.0000 HR
1LB3	PEO-backhoe	A 1EQ1	1050.0000 HR	* Multiply by	1.0000	1050.0000 HR
1LB4	PEO-dozer	A 1EQ2	2100.0000 HR	* Multiply by	1.0000	2100.0000 HR
1LB5	PEO-motor grader	A 1EQ5	525.0000 HR	* Multiply by	1.0000	525.0000 HR
1LB6	TRUCK DRIVER - water truck	A 1EQ4	525.0000 HR	* Multiply by	1.0000	525.0000 HR
1LB7	LABORER	W TIME1 6	1050.0000 HRS	* Multiply by	1.0000	1050.0000 HR
1LB8	flagmen	W TIME1 6	1050.0000 HRS	* Multiply by	1.0000	1050.0000 HR
1LB9	foreman 3 \$26.50/hr	W TIME1 6	1050.0000 HRS	* Multiply by	1.0000	1050.0000 HR
2LB2	TRUCK DRIVER	A 2EQ3	7859.0000 HR	* Multiply by	1.0000	7859.0000 HR
2LB3	PEO-backhoe	A 2EQ1	271.0000 HR	* Multiply by	1.0000	271.0000 HR
2LB4	PEO-dozer	A 2EQ2	542.0000 HR	* Multiply by	1.0000	542.0000 HR
2LB5	PEO-motor grader	A 2EQ5	136.0000 HR	* Multiply by	1.0000	136.0000 HR
2LB6	TRUCK DRIVER - water truck	A 2EQ4	136.0000 HR	* Multiply by	1.0000	136.0000 HR
3LB2	PEO dozer	A 3EQ2	1056.0000 HR	* Multiply by	1.0000	1056.0000 HR
3LB3	PEO motor grader	A 3EQ1	1056.0000 HR	* Multiply by	1.0000	1056.0000 HR
<hr/>						
B 09013002 01 sand (8" thick)						84000.0000 CY
<hr/>						
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
<hr/>						
DUMPTI6	dump time(in hours)					0.0333 HR
<hr/>						
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	15.0000	* Multiply by		MI
	make round trip	N	2.0000			MI
<hr/>						
HAULD 6	haul distance (round trip)					30.0000 MI

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B 09013002 01. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 2

B 09013002 01. sand (8" thick)	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0383 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	210.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.9412	* Multiply by		HR
truck payload	W TRKPAY6	8.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					31.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	210.0000			CY
PRODRT6 production rate					210.0000 CY/
TIME1 6 total work hours					
excavation quantity	A 01 (	84000.0000	/ Divide by		CY
production rate	W PRODRT6	210.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					400.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.6667			FAC
TLOADF6 truck load factor					0.6667 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
TRKCAP6 truck capacity					12.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADTI6	0.0383	+ Add to		HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B 09013002 01. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 13

B 09013002 01. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
haul distance	W HAULD 6 (		30.0000	/ Divide by		MI
travel speed	W TRKSPD6		34.5000)	+ Add to		MPH
dump time	W DUMPTI6		0.0333			HR
TRKCYC6	truck cycle time					0.9412 HR
TRKHRS6	total truck hours					
work time	W TIME1 6		400.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6		31.0000			TRU
TRKHRS6	total truck hours					12400.0000 HR
TRKPAY6	truck payload - CY per cycle					
truck capacity	W TRKCAP6 (		12.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6		0.6667)	R Round		FAC
round number	N		1.0000			CY
TRKPAY6	truck payload - CY per cycle					8.0000 CY
TRKSPD6	truck speed					
truck speed	N		34.5000			MPH
TRKSPD6	truck speed					34.5000 MPH
WKTIME6	work time per hour					
time efficiency per hour	N		0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	400.0000 HRS	* Multiply by	1.0000	400.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	400.0000 HRS	* Multiply by	1.5000	600.0000 HR
EQ3	DUMP TRUCK 12 CY	W TRKHRS6	12400.0000 HR	* Multiply by	1.0000	12400.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	400.0000 HRS	* Multiply by	0.5000	200.0000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	400.0000 HRS	* Multiply by	0.5000	200.0000 HR
LB1	OILER	A EQ1	400.0000 HR	* Multiply by	1.0000	400.0000 HR
LB2	TRUCK DRIVER	A EQ3	12400.0000 HR	* Multiply by	1.0000	12400.0000 HR
LB3	PEO-backhoe	A EQ1	400.0000 HR	* Multiply by	1.0000	400.0000 HR
LB4	PEO-dozer	A EQ2	600.0000 HR	* Multiply by	1.0000	600.0000 HR
LB6	PEO-motor grader	A EQ5	200.0000 HR	* Multiply by	1.0000	200.0000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	200.0000 HR	* Multiply by	1.0000	200.0000 HR
LB8	LABORER	W TIME1 6	400.0000 HRS	* Multiply by	1.0000	400.0000 HR
LB9	flagmen	W TIME1 6	400.0000 HRS	* Multiply by	1.0000	400.0000 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 B 09013002 01. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 1

B 09013002 01. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
LB10	foreman 3 \$26.50/hr	W TIME1 6	400.0000 HRS * Multiply by		1.0000	400.0000 HR
B 09013003 01 Cutoff Wall						
						6150.0000 CY
5	conc slope pvmt-grade & pave	P	6150.0000 CY / Divide by		1.2346	4981.3705 SQ
6	conc slope pvmt-backfill	A 2	168960.0000 LF * Multiply by		0.2500	42240.0000 LF
9	concrete material + 5% waste	P	6150.0000 CY * Multiply by		1.0500	6457.5000 CY
11	expan jnt filler + 3% waste (2/2)	A 10	0.0000 LF * Multiply by		1.0000	0.0000 LF
12	joint sealer cmpd + 3% waste	A 7	0.0000 LBS * Multiply by		1.0300	0.0000 LBS
13	curing compound	A 5	4981.3705 SQ / Divide by		2.0000	2490.6852 GAL
14	reinforcing mesh + 5% waste	A 4	0.0000 SF * Multiply by		1.0500	0.0000 SF
15	stakes, core drilling	A 5	4981.3705 SQ * Multiply by		1.0000	4981.3705 SQ
16	forms, nails, etc	A 2	168960.0000 LF * Multiply by		1.0000	168960.0000 LF
C 09011502 02 Excavation						
						695000.0000 CY
DUMPTI6 dump time(in hours)						
	dump time(in minutes)	N	2.0000 / Divide by			MI
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6 haul distance (round trip)						
	haul distance (1 way)	N	15.0000 * Multiply by			MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					30.0000 MI
LOADTI6 load time (in hours)						
	load time (in minutes)	N	3.0000 / Divide by			MIN
	minutes per hour	N	60.0000			MIN
LOADTI6	load time (in hours)					0.0500 HR
NTRUCK6 number of trucks needed						
	production rate	W PRODR6 (	320.0000 / Divide by			CY/
	work time per hour	W WKTIME6 (	0.8300 / Divide by			HR
	truck cycle time	W TRKCYC6	0.8150 * Multiply by			HR
	truck payload	W TRKPAY6	16.0000) * Multiply by			CY
		N	1.0000) U Round Up			TRU
	round UP to whole number	N	1.0000 + Add to			TRU
	add 1 extra truck	N	1.0000			TRU

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C 09011502 02. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 15

C 09011502 02. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>						
NTRUCK6	number of trucks needed					21.0000 TRU
<hr/>						
PRODRT6	production rate					
	production rate (CY/HR)	N	320.0000			CY/
<hr/>						
PRODRT6	production rate					320.0000 CY/
<hr/>						
TIME1 6	total work hours					
	excavation quantity	A 02 (	695000.0000	/ Divide by		CY
	production rate	W PRODRT6	320.0000)	R Round		CY/
	(round UP to whole number)	N	1.0000			FAC
<hr/>						
TIME1 6	total work hours					2172.0000 HRS
<hr/>						
TLOADF6	truck load factor					
	load factor	N	0.8000			FAC
<hr/>						
TLOADF6	truck load factor					0.8000 FAC
<hr/>						
TRKCAP6	truck capacity					
	truck capacity	N	20.0000			CY
<hr/>						
TRKCAP6	truck capacity					20.0000 CY
<hr/>						
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0500	+ Add to		HR
	haul distance	W HAULD 6 (	30.0000	/ Divide by		MI
	travel speed	W TRKSPD6	41.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
<hr/>						
TRKCYC6	truck cycle time					0.8150 HR
<hr/>						
TRKHRS6	total truck hours					
	work time	W TIME1 6	2172.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	21.0000			TRU
<hr/>						
TRKHRS6	total truck hours					45612.0000 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBRO01: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C 09011502 02. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

C 09011502 02. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKPAY6	truck payload - CY per cycle					
	truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
	truck load factor (80%)	W TLOADF6	0.8000	R Round		FAC
	round number	N	1.0000			CY
TRKPAY6	truck payload - CY per cycle					16.0000 CY
TRKSPD6	truck speed					
	truck speed	N	41.0000			MPH
TRKSPD6	truck speed					41.0000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HF
EQ1	BACKHOE CAT 235 C 2.0 CY	W TIME1 6	2172.0000 HRS	* Multiply by	1.0000	2172.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	2172.0000 HRS	* Multiply by	1.5000	3258.0000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6	45612.0000 HR	* Multiply by	1.0000	45612.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	2172.0000 HRS	* Multiply by	0.5000	1086.0000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	2172.0000 HRS	* Multiply by	0.5000	1086.0000 HR
LB1	OILER	A EQ1	2172.0000 HR	* Multiply by	1.0000	2172.0000 HR
LB2	TRUCK DRIVER	A EQ3	45612.0000 HR	* Multiply by	1.0000	45612.0000 HR
LB3	PEO-backhoe	A EQ1	2172.0000 HR	* Multiply by	1.0000	2172.0000 HR
LB4	PEO-dozer	A EQ2	3258.0000 HR	* Multiply by	1.0000	3258.0000 HR
LB6	PEO-motor grader	A EQ5	1086.0000 HR	* Multiply by	1.0000	1086.0000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	1086.0000 HR	* Multiply by	1.0000	1086.0000 HR
LB8	LABORER	W TIME1 6	2172.0000 HRS	* Multiply by	2.0000	4344.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	2172.0000 HRS	* Multiply by	1.0000	2172.0000 HR
C 09013002 04 Excavation for stone						115700.0000 CY
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	15.0000	* Multiply by		MI

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C 09013002 04. Excavation for stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 17

C 09013002 04. Excavation for stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					30.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	3.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0500 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	320.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.8150	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					21.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	320.0000			CY/
PRODRT6 production rate					320.0000 CY/
TIMEL 6 total work hours					
excavation quantity	A 04 (	115700.0000	/ Divide by		CY
production rate	W PRODRT6	320.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIMEL 6 total work hours					362.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
TLOADF6 truck load factor					0.8000 FAC
TRKCAP6 truck capacity					

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C 09013002 04. Excavation for stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 1d

C 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
	truck capacity	N	20.0000			CY
TRKCAP6	truck capacity					20.0000 CY
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0500	+ Add to		HR
	haul distance	W HAULD 6 (	30.0000	/ Divide by		MI
	travel speed	W TRKSPD6	41.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
TRKCYC6	truck cycle time					0.8150 HR
TRKHRS6	total truck hours					
	work time	W TIME1 6	362.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	21.0000			TRU
TRKHRS6	total truck hours					7602.0000 HR
TRKPAY6	truck payload - CY per cycle					
	truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
	truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
	round number	N	1.0000			CY
TRKPAY6	truck payload - CY per cycle					16.0000 CY
TRKSPD6	truck speed					
	truck speed	N	41.0000			MPH
TRKSPD6	truck speed					41.0000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
EQ1	BACKHOE CAT 235 C 2.0 CY	W TIME1 6	362.0000 HRS	* Multiply by	1.0000	362.0000 H
EQ2	DOZER D-6 W/BLADE	W TIME1 6	362.0000 HRS	* Multiply by	1.5000	543.0000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6	7602.0000 HR	* Multiply by	1.0000	7602.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	362.0000 HRS	* Multiply by	0.5000	181.0000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	362.0000 HRS	* Multiply by	0.5000	181.0000 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 C 09013002 04. Excavation for stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 19

C 09013002 04. Excavation for stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
LB1 OILER	A EQ1	362.0000 HR	* Multiply by	1.0000	362.0000 HR
LB2 TRUCK DRIVER	A EQ3	7602.0000 HR	* Multiply by	1.0000	7602.0000 HR
LB3 PEO-backhoe	A EQ1	362.0000 HR	* Multiply by	1.0000	362.0000 HR
LB4 PEO-dozer	A EQ2	543.0000 HR	* Multiply by	1.0000	543.0000 HR
LB6 PEO-motor grader	A EQ5	181.0000 HR	* Multiply by	1.0000	181.0000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	181.0000 HR	* Multiply by	1.0000	181.0000 HR
LB8 LABORER	W TIME1 6	362.0000 HRS	* Multiply by	2.0000	724.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	362.0000 HRS	* Multiply by	1.0000	362.0000 HR

D 09011502 02 Excavation

517600.0000 CY

DUMPTI6 dump time(in hours)

dump time(in minutes)	N	2.0000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

DUMPTI6 dump time(in hours)

0.0333 HR

HAULD 6 haul distance (round trip)

haul distance (1 way)	N	11.0000	* Multiply by	MI
make round trip	N	2.0000		MI

HAULD 6 haul distance (round trip)

22.0000 MI

LOADTI6 load time (in hours)

load time (in minutes)	N	3.7000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

LOADTI6 load time (in hours)

0.0617 HR

NTRUCK6 number of trucks needed

production rate	W PRODRT6 (	260.0000	/ Divide by	CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by	HR
truck cycle time	W TRKCYC6	0.6548	* Multiply by	HR
truck payload	W TRKPAY6	16.0000	* Multiply by	CY
	N	1.0000	U Round Up	TRU
round UP to whole number	N	1.0000	+ Add to	TRU
add 1 extra truck	N	1.0000		TRU

TRUCK6 number of trucks needed

14.0000 TRU

PRODRT6 production rate

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09011502 02. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

D 09011502 02. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
production rate (CY/HR)		N	260.0000			CY/
PRODRT6	production rate					260.0000 CY/
TIME1 6 total work hours						
excavation quantity		A 02 (	517600.0000	/ Divide by		CY
production rate		W PRODRT6	260.0000)	R Round		CY/
(round UP to whole number)		N	1.0000			FAC
TIME1 6	total work hours					1991.0000 HRS
TLOADF6 truck load factor						
load factor		N	0.8000			FAC
TLOADF6	truck load factor					0.8000 FAC
TRKCAP6 truck capacity						
truck capacity		N	20.0000			CY
TRKCAP6	truck capacity					20.0000 CY
TRKCYC6 truck cycle time						
truck load time		W LOADTI6	0.0617	+ Add to		HR
haul distance		W HAULD 6 (	22.0000	/ Divide by		MI
travel speed		W TRKSPD6	39.3000)	+ Add to		MPH
dump time		W DUMPTI6	0.0333			HR
TRKCYC6	truck cycle time					0.6548 HR
TRKHRS6 total truck hours						
work time		W TIME1 6	1991.0000	* Multiply by		HRS
number of trucks needed		W NTRUCK6	14.0000			TRU
TRKHRS6	total truck hours					27874.0000 HR
TRKPAY6 truck payload - CY per cycle						
truck capacity		W TRKCAP6 (	20.0000	* Multiply by		CY
truck load factor (80%)		W TLOADF6	0.8000)	R Round		FAC
round number		N	1.0000			CY

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09011502 02. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 21

D 09011502 02. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKPAY6	truck payload - CY per cycle					16.0000 CY
TRKSPD6	truck speed					
	truck speed	N	39.3000			MPH
TRKSPD6	truck speed					39.3000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
EQ1	BACKHOE CAT 235 C 2.0 CY	W TIME1 6	1991.0000 HRS * Multiply by		1.0000	1991.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	1991.0000 HRS * Multiply by		1.5000	2986.5000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6	27874.0000 HR * Multiply by		1.0000	27874.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	1991.0000 HRS * Multiply by		0.5000	995.5000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	1991.0000 HRS * Multiply by		0.5000	995.5000 HR
LB1	OILER	A EQ1	1991.0000 HR * Multiply by		1.0000	1991.0000 HR
LB2	TRUCK DRIVER	A EQ3	27874.0000 HR * Multiply by		1.0000	27874.0000 HR
LB3	PEO-backhoe	A EQ1	1991.0000 HR * Multiply by		1.0000	1991.0000 HR
LB4	PEO-dozer	A EQ2	2986.5000 HR * Multiply by		1.0000	2986.5000 HR
LB6	PEO-motor grader	A EQ5	995.5000 HR * Multiply by		1.0000	995.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	995.5000 HR * Multiply by		1.0000	995.5000 HR
LB8	LABORER	W TIME1 6	1991.0000 HRS * Multiply by		2.0000	3982.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	1991.0000 HRS * Multiply by		1.0000	1991.0000 HR
D 09013002 02 R-90 Stone						137800.0000 TN
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000 / Divide by			MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	15.0000 * Multiply by			MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					30.0000 MI

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09013002 02. R-90 Stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 2

D 09013002 02. R-90 Stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
LOADTI6 load time (in hours)					
load time (in minutes)	N	3.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0500 HR
NTRUCK6 number of trucks needed					
production rate	W PRODR6 (	320.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.8150	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					21.0000 TRU
PRODR6 production rate					
production rate (CY/HR)	N	320.0000			CY/
PRODR6 production rate					320.0000 CY/
TIME1 6 total work hours					
excavation quantity	A 04 (	141400.0000	/ Divide by		CY
production rate	W PRODR6	320.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					442.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
TLOADF6 truck load factor					0.8000 FAC
TRKCAP6 truck capacity					
truck capacity	N	20.0000			CY
TRKCAP6 truck capacity					20.0000 CY

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09013002 02. R-90 Stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 23

D 09013002 02. R-90 Stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKCYC6 truck cycle time					
truck load time	W LOADTI6	0.0500	+ Add to		HR
haul distance	W HAULD 6 (	30.0000	/ Divide by		MI
travel speed	W TRKSPD6	41.0000)	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
TRKCYC6 truck cycle time					0.8150 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	442.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	21.0000			TRU
TRKHRS6 total truck hours					9282.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					16.0000 CY
TRKSPD6 truck speed					
truck speed	N	41.0000			MPH
TRKSPD6 truck speed					41.0000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
D 09013002 04 Excavation for stone					141400.0000 CY
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)					0.0333 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09013002 04. Excavation for stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

D 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>						
HAULD 6 haul distance (round trip)						
haul distance (1 way)	N		11.0000	* Multiply by		MI
make round trip	N		2.0000			MI
<hr/>						
HAULD 6 haul distance (round trip)						22.0000 MI
<hr/>						
LOADTI6 load time (in hours)						
load time (in minutes)	N		3.7000	/ Divide by		MIN
minutes per hour	N		60.0000			MIN
<hr/>						
LOADTI6 load time (in hours)						0.0617 HR
<hr/>						
NTRUCK6 number of trucks needed						
production rate	W PRODR6 (		260.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (		0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6		0.6548	* Multiply by		HR
truck payload	W TRKPAY6		16.0000)	* Multiply by		CY
	N		1.0000)	U Round Up		TRU
round UP to whole number	N		1.0000	+ Add to		TRU
add 1 extra truck	N		1.0000			TRU
<hr/>						
NTRUCK6 number of trucks needed						14.0000 TRU
<hr/>						
PRODR6 production rate						
production rate (CY/HR)	N		260.0000			CY/
<hr/>						
PRODR6 production rate						260.0000 CY/
<hr/>						
TIME1 6 total work hours						
excavation quantity	A 04 (		141400.0000	/ Divide by		CY
production rate	W PRODR6		260.0000)	R Round		CY/
(round UP to whole number)	N		1.0000			FAC
<hr/>						
TIME1 6 total work hours						544.0000 HRS
<hr/>						
TLOADF6 truck load factor						
load factor	N		0.8000			FAC
<hr/>						
TLOADF6 truck load factor						0.8000 FAC

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBRO01: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09013002 04. Excavation for stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 25

D 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>						
TRKCAP6	truck capacity					
	truck capacity	N	20.0000			CY
<hr/>						
TRKCAP6	truck capacity					20.0000 CY
<hr/>						
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0617	+ Add to		HR
	haul distance	W HAULD 6 (	22.0000	/ Divide by		MI
	travel speed	W TRKSPD6	39.3000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
<hr/>						
TRKCYC6	truck cycle time					0.6548 HR
<hr/>						
TRKHRS6	total truck hours					
	work time	W TIME1 6	544.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	14.0000			TRU
<hr/>						
TRKHRS6	total truck hours					7616.0000 HR
<hr/>						
TRKPAY6	truck payload - CY per cycle					
	truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
	truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
	round number	N	1.0000			CY
<hr/>						
TRKPAY6	truck payload - CY per cycle					16.0000 CY
<hr/>						
TRKSPD6	truck speed					
	truck speed	N	39.3000			MPH
<hr/>						
TRKSPD6	truck speed					39.3000 MPH
<hr/>						
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
<hr/>						
WKTIME6	work time per hour					0.8300 HR
<hr/>						
EQ1	BACKHOE CAT 235 C 2.0 CY	W TIME1 6	544.0000 HRS	* Multiply by	1.0000	544.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	544.0000 HRS	* Multiply by	1.5000	816.0000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6	7616.0000 HR	* Multiply by	1.0000	7616.0000 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 D 09013002 04. Excavation for stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 5

D 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	544.0000 HRS * Multiply by		0.5000	272.0000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	544.0000 HRS * Multiply by		0.5000	272.0000 HR
LB1	OILER	A EQ1	544.0000 HR * Multiply by		1.0000	544.0000 HR
LB2	TRUCK DRIVER	A EQ3	7616.0000 HR * Multiply by		1.0000	7616.0000 HR
LB3	PEO-backhoe	A EQ1	544.0000 HR * Multiply by		1.0000	544.0000 HR
LB4	PEO-dozer	A EQ2	816.0000 HR * Multiply by		1.0000	816.0000 HR
LB6	PEO-motor grader	A EQ5	272.0000 HR * Multiply by		1.0000	272.0000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	272.0000 HR * Multiply by		1.0000	272.0000 HR
LB8	LABORER	W TIME1 6	544.0000 HRS * Multiply by		2.0000	1088.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	544.0000 HRS * Multiply by		1.0000	544.0000 HR
E 09011502 02 Excavation						143000.0000 CY
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	8.0000	* Multiply by		MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					16.0000 MI
LOADTI6	load time (in hours)					
	load time (in minutes)	N	2.6000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
LOADTI6	load time (in hours)					0.0433 HR
NTRUCK6	number of trucks needed					
	production rate	W PRODRT6 (	210.0000	/ Divide by		CY/
	work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
	truck cycle time	W TRKCYC6	0.6099	* Multiply by		HR
	truck payload	W TRKPAY6	9.0000)	* Multiply by		CY
		N	1.0000)	U Round Up		TRU
	round UP to whole number	N	1.0000	+ Add to		TRU
	add 1 extra truck	N	1.0000			T
NTRUCK6	number of trucks needed					19.0000 TRU

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBRO01: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09011502 02. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 27

E 09011502 02. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
PRODRT6	production rate					
	production rate (CY/HR)	N	210.0000			CY/
PRODRT6	production rate					210.0000 CY/
TIME1 6	total work hours					
	excavation quantity	N	(143000.0000	/ Divide by		CY
	production rate	W PRODRT6	210.0000)	R Round		CY/
	(round UP to whole number)	N	1.0000			FAC
TIME1 6	total work hours					681.0000 HRS
TLOADF6	truck load factor					
	load factor	N	0.7500			FAC
TLOADF6	truck load factor					0.7500 FAC
TRKCAP6	truck capacity					
	truck capacity	N	12.0000			CY
TRKCAP6	truck capacity					12.0000 CY
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0433	+ Add to		HR
	haul distance	W HAULD 6 (	16.0000	/ Divide by		MI
	travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
TRKCYC6	truck cycle time					0.6099 HR
TRKHRS6	total truck hours					
	work time	W TIME1 6	681.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	19.0000			TRU
TRKHRS6	total truck hours					12939.0000 HR
TRKPAY6	truck payload - CY per cycle					
	truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09011502 02. Excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 18

E 09011502 02. Excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
truck load factor (75%)		W TLOADF6	0.7500	R Round		FAC
round number		N	1.0000			CY
TRKPAY6	truck payload - CY per cycle					9.0000 CY
TRKSPD6	truck speed					
	truck speed	N	30.0000			MPH
TRKSPD6	truck speed					30.0000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	681.0000 HRS * Multiply by	1.0000		681.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	681.0000 HRS * Multiply by	1.0000		681.0000 HR
EQ3	Dump truck, 12 cy, own-op	W TRKHRS6	12939.0000 HR * Multiply by	1.0000		12939.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	681.0000 HRS * Multiply by	0.5000		340.5000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	681.0000 HRS * Multiply by	0.5000		340.5000 HR
LB1	OILER	A EQ1	681.0000 HR * Multiply by	1.0000		681.0000 HR
LB2	TRUCK DRIVER	A EQ3	12939.0000 HR * Multiply by	1.0000		12939.0000 HR
LB3	PEO-backhoe	A EQ1	681.0000 HR * Multiply by	1.0000		681.0000 HR
LB4	PEO-dozer	A EQ2	681.0000 HR * Multiply by	1.0000		681.0000 HR
LB6	PEO-motor grader	A EQ5	340.5000 HR * Multiply by	1.0000		340.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	340.5000 HR * Multiply by	1.0000		340.5000 HR
LB8	LABORER	W TIME1 6	681.0000 HRS * Multiply by	1.0000		681.0000 HR
LB9	flagmen	W TIME1 6	681.0000 HRS * Multiply by	1.0000		681.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	681.0000 HRS * Multiply by	1.0000		681.0000 HR
E 09013002 01 sand (8" thick)						13200.0000 CY
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	9.5000	* Multiply by		MI
	make round trip	N	2.0000			MI

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09013002 01. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 29

E 09013002 01. sand (8" thick)	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
HAULD 6 haul distance (round trip)					19.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	2.3000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0383 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	210.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.7502	* Multiply by		HR
truck payload	W TRKPAY6	8.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					25.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	210.0000			CY/
PRODRT6 production rate					210.0000 CY/
TIME1 6 total work hours					
excavation quantity	A 01 (	13200.0000	/ Divide by		CY
production rate	W PRODRT6	210.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					63.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.6667			FAC
TLOADF6 truck load factor					0.6667 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBRO01: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09013002 01. sand (8" thick)

TIME 10:16:01

SETTINGS PAGE 00

** LINK LISTING **

E 09013002 01. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKCAP6	truck capacity					12.0000 CY
TRKCYC6	truck cycle time					
	truck load time	W LOADTI6	0.0383	+ Add to		HR
	haul distance	W HAULD 6 (	19.0000	/ Divide by		MI
	travel speed	W TRKSPD6	28.0000)	+ Add to		MPH
	dump time	W DUMPTI6	0.0333			HR
TRKCYC6	truck cycle time					0.7502 HR
TRKHRS6	total truck hours					
	work time	W TIME1 6	63.0000	* Multiply by		HRS
	number of trucks needed	W NTRUCK6	25.0000			TRU
TRKHRS6	total truck hours					1575.0000 HR
TRKPAY6	truck payload - CY per cycle					
	truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY
	truck load factor (80%)	W TLOADF6	0.6667)	R Round		FAC
	round number	N	1.0000			CY
TRKPAY6	truck payload - CY per cycle					8.0000 CY
TRKSPD6	truck speed					
	truck speed	N	28.0000			MPH
TRKSPD6	truck speed					28.0000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
	sand material	P	13200.0000 CY	* Multiply by	1.0000	13200.0000 CY
EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	63.0000 HRS	* Multiply by	1.5000	94.5000 HR
EQ3	DUMP TRUCK 12 CY	W TRKHRS6	1575.0000 HR	* Multiply by	1.0000	1575.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	63.0000 HRS	* Multiply by	0.5000	31.5000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	63.0000 HRS	* Multiply by	0.5000	31.5000 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09013002 01. sand (8" thick)
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 31

E 09013002 01. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
LB1	OILER	A EQ1	63.0000 HR	* Multiply by	1.0000	63.0000 HR
LB2	TRUCK DRIVER	A EQ3	1575.0000 HR	* Multiply by	1.0000	1575.0000 HR
LB3	PEO-backhoe	A EQ1	63.0000 HR	* Multiply by	1.0000	63.0000 HR
LB4	PEO-dozor	A EQ2	94.5000 HR	* Multiply by	1.0000	94.5000 HR
LB6	PEO-motor grader	A EQ5	31.5000 HR	* Multiply by	1.0000	31.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	31.5000 HR	* Multiply by	1.0000	31.5000 HR
LB8	LABORER	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR
LB9	flagmen	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR
E 09019902 01 excavation						6500.0000 CY
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	8.0000	* Multiply by		MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					16.0000 MI
LOADTI6	load time (in hours)					
	load time (in minutes)	N	3.2000	/ Divide by		MIN
	minutes per hour	N	60.0000			MIN
LOADTI6	load time (in hours)					0.0533 HR
NTRUCK6	number of trucks needed					
	production rate	W PRODR6 (	170.0000	/ Divide by		CY/
	work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
	truck cycle time	W TRKCYC6	0.6199	* Multiply by		HR
	truck payload	W TRKPAY6	9.0000)	* Multiply by		CY
		N	1.0000)	U Round Up		TRU
	round UP to whole number	N	1.0000	+ Add to		TRU
	add 1 extra truck	N	1.0000			TRU
NTRUCK6	number of trucks needed					16.0000 TRU
PRODRT6	production rate					

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 01. excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

E 09019902 01. excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
production rate (CY/HR)	N	170.0000			CY/
PRODRT6 production rate					170.0000 CY/
TIME1 6 total work hours					
excavation quantity	N	(6500.0000	/ Divide by		CY
production rate	W PRODRT6	170.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					38.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.7500			FAC
TLOADF6 truck load factor					0.7500 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
TRKCAP6 truck capacity					12.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADTI6	0.0533	+ Add to		HR
haul distance	W HAULD 6 (	16.0000	/ Divide by		MI
travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
TRKCYC6 truck cycle time					0.6199 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	38.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	16.0000			TRU
TRKHRS6 total truck hours					608.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.7500)	R Round		FAC
round number	N	1.0000			CY

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 01. excavation
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 33

E 09019902 01. excavation		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKPAY6	truck payload - CY per cycle					9.0000 CY
TRKSPD6	truck speed					
	truck speed	N	30.0000			MPH
TRKSPD6	truck speed					30.0000 MPH
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
WKTIME6	work time per hour					0.8300 HR
EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	38.0000 HRS * Multiply by	1.0000		38.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	38.0000 HRS * Multiply by	1.0000		38.0000 HR
EQ3	Dump truck, 12 cy, own-op	W TRKHRS6	608.0000 HR * Multiply by	1.0000		608.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	38.0000 HRS * Multiply by	0.5000		19.0000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	38.0000 HRS * Multiply by	0.5000		19.0000 HR
LB1	OILER	A EQ1	38.0000 HR * Multiply by	1.0000		38.0000 HR
LB2	TRUCK DRIVER	A EQ3	608.0000 HR * Multiply by	1.0000		608.0000 HR
LB3	PEO-backhoe	A EQ1	38.0000 HR * Multiply by	1.0000		38.0000 HR
LB4	PEO-dozer	A EQ2	38.0000 HR * Multiply by	1.0000		38.0000 HR
LB6	PEO-motor grader	A EQ5	19.0000 HR * Multiply by	1.0000		19.0000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	19.0000 HR * Multiply by	1.0000		19.0000 HR
LB8	LABORER	W TIME1 6	38.0000 HRS * Multiply by	1.0000		38.0000 HR
LB9	flagmen	W TIME1 6	38.0000 HRS * Multiply by	1.0000		38.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	38.0000 HRS * Multiply by	1.0000		38.0000 HR
E 09019902 03 Crushed stone						9000.0000 TON
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000 / Divide by			MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	11.5000 * Multiply by			MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					23.0000 MI

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 03. Crushed stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

E 09019902 03. Crushed stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
LOADTI6 load time (in hours)					
load time (in minutes)	N	4.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
LOADTI6 load time (in hours)					0.0667 HR
<hr/>					
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	180.0000	/ Divide by		TN/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.7250	* Multiply by		HR
truck payload	W TRPAY6	12.0000)	* Multiply by		TON
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
<hr/>					
NTRUCK6 number of trucks needed					15.0000 TRU
<hr/>					
PRODRT6 production rate					
production rate (TN/HR)	N	180.0000			TN/
<hr/>					
PRODRT6 production rate					180.0000 TN/
<hr/>					
TIMEL 6 total work hours					
excavation quantity	N (	9500.0000	/ Divide by		TON
production rate	W PRODRT6	180.0000)	R Round		TN/
(round UP to whole number)	N	1.0000			FAC
<hr/>					
TIMEL 6 total work hours					53.0000 HRS
<hr/>					
TLOADF6 truck load factor					
load factor	N	0.6670			FAC
<hr/>					
TLOADF6 truck load factor					0.6670 FAC
<hr/>					
TRKCAP6 truck capacity					
truck capacity	N	18.0000			TON
<hr/>					
TRKCAP6 truck capacity					18.0000 TON

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 03. Crushed stone
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 35

E 09019902 03. Crushed stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
TRKCYC6 truck cycle time					
truck load time	W LOADTI6	0.0667	+ Add to		HR
haul distance	W HAULD 6 (	23.0000	/ Divide by		MI
travel speed	W TRKSPD6	36.8000)	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
<hr/>					
TRKCYC6 truck cycle time					0.7250 HR
<hr/>					
TRKHS6 total truck hours					
work time	W TIME1 6	53.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	15.0000			TRU
<hr/>					
TRKHS6 total truck hours					795.0000 HR
<hr/>					
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	18.0000	* Multiply by		TON
truck load factor (80%)	W TLOADF6	0.6670)	R Round		FAC
round number	N	1.0000			TON
<hr/>					
TRKPAY6 truck payload - CY per cycle					12.0000 TON
<hr/>					
TRKSPD6 truck speed					
truck speed	N	36.8000			MPH
<hr/>					
TRKSPD6 truck speed					36.8000 MPH
<hr/>					
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
<hr/>					
WKTIME6 work time per hour					0.8300 HR
<hr/>					
EQ1 BACKHOE, HITACHI UH083 1.13 CY	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR
EQ3 Dump truck, 12 cy, own-op	W TRKHS6	795.0000 HR	* Multiply by	1.0000	795.0000 HR
LB2 TRUCK DRIVER	A EQ3	795.0000 HR	* Multiply by	1.0000	795.0000 HR
LB3 PEO-backhoe	A EQ1	53.0000 HR	* Multiply by	1.0000	53.0000 HR
LB4 PEO-dozer	A EQ2	53.0000 HR	* Multiply by	1.0000	53.0000 HR
LB8 LABORER	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 04. Obstruction Removal
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 0

E 09019902 04. Obstruction Removal	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
E 09019902 04 Obstruction Removal					5600.0000 LF
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
DUMPTI6 dump time(in hours)					0.0333 HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	18.5000	* Multiply by		MI
make round trip	N	2.0000			MI
<hr/>					
HAULD 6 haul distance (round trip)					37.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	12.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
LOADTI6 load time (in hours)					0.2000 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	30.0000	/ Divide by		TN/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.9993	* Multiply by		HR
truck payload	W TRKPAY6	6.0000)	* Multiply by		TN
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
	N	0.0000			TRU
<hr/>					
NTRUCK6 number of trucks needed					7.0000 TRU
PRODRT6 production rate					
production rate (TN/HR)	N	30.0000			TN/
<hr/>					
PRODRT6 production rate					30.0000 TN/
TIME1 6 total work hours					
excavation quantity	N	1890.0000	/ Divide by		TON
production rate	W PRODRT6	30.0000)	R Round		TN/

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 04. Obstruction Removal
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE 37

E 09019902 04. Obstruction Removal	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					63.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.3333			FAC
TLOADF6 truck load factor					0.3333 FAC
TRKCAP6 truck capacity					
truck capacity	N	18.0000			TON
TRKCAP6 truck capacity					18.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADTI6	0.2000	+ Add to		HR
haul distance	W HAULD 6 (	37.0000	/ Divide by		MI
travel speed	W TRKSPD6	48.3000	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
TRKCYC6 truck cycle time					0.9993 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	63.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	7.0000			TRU
TRKHRS6 total truck hours					441.0000 HR
TRKPAY6 truck payload - TN per cycle					
truck capacity	W TRKCAP6 (	18.0000	* Multiply by		TON
truck load factor (33%)	W TLOADF6	0.3333	R Round		FAC
round number	N	1.0000			TON
TRKPAY6 truck payload - TN per cycle					6.0000 TON
TRKSPD6 truck speed					
truck speed	N	48.3000			MPH
TRKSPD6 truck speed					48.3000 MPH

Tue 27 Sep 1994

U.S. Army Corps of Engineers
 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
 East Baton Rouge Parish Feasibility Study
 E 09019902 04. Obstruction Removal
 ** LINK LISTING **

TIME 10:16:01

SETTINGS PAGE

E 09019902 04. Obstruction Removal		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>						
WKTIME6	work time per hour					
	time efficiency per hour	N	0.8300			FAC
<hr/>						
WKTIME6	work time per hour					0.8300 HR
	BACKHOE CAT 225B 1.25 CY	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
	PEO-backhoe	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
EQ2	DOZER D-6 W/BLADE	W TIME1 6	63.0000 HRS * Multiply by		1.5000	94.5000 HR
EQ3	Dump truck, 12 cy, own-op	W TRKHRS6	441.0000 HR * Multiply by		1.0000	441.0000 HR
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	63.0000 HRS * Multiply by		0.5000	31.5000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	63.0000 HRS * Multiply by		0.5000	31.5000 HR
LB1	OILER	A EQ1	63.0000 HR * Multiply by		1.0000	63.0000 HR
LB2	TRUCK DRIVER	A EQ3	441.0000 HR * Multiply by		1.0000	441.0000 HR
LB3	PEO-backhoe	A EQ1	63.0000 HR * Multiply by		1.0000	63.0000 HR
LB4	PEO-dozer	A EQ2	94.5000 HR * Multiply by		1.0000	94.5000 HR
LB6	PEO-motor grader	A EQ5	31.5000 HR * Multiply by		1.0000	31.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	31.5000 HR * Multiply by		1.0000	31.5000 HR
LB8	LABORER	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
LB9	flagmen	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR